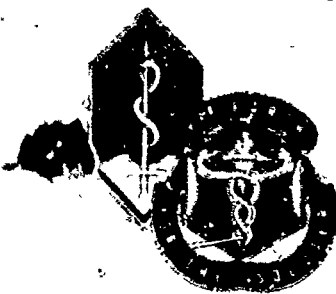


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*Institute Report No. 405*

**Fourteen-Day Subacute Intravenous Toxicity Study of  
Hypertonic Saline/Dextran 70® and its Constituents  
in New Zealand White Rabbits**

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and  
Don W. Korte, Jr., PhD, LTC, MSC*

MAMMALIAN TOXICOLOGY BRANCH  
DIVISION OF TOXICOLOGY

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November 1989

Toxicology Series: 248

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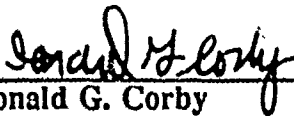
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	<u>20 Nov 89</u>
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The subacute toxicity following intravenous administration of a proposed resuscitation fluid, hypertonic saline/Dextran 70® (HSD), was evaluated in male and female New Zealand White rabbits. Animals received intravenous doses of HSD, at levels of 8, 12, and 16 ml/kg/day over a 5-minute period, daily for 14 days. Equal volumes of each HSD component, 7.5% hypertonic saline (HS) and 6% Dextran 70® (D70) in normal saline, were also evaluated. Ringer's lactate (RL), dosed at 16 ml/kg/day, served as the control. Blood samples were collected for serum chemistry and hematologic analyses on Days -7 and 0 (baseline), Days 1, 2, 3, and 7 before daily administration of the dosing solutions, and Day 14 before necropsy. Observations were made daily before dosing, 1 hour after dosing, and in the afternoon. Water consumption was monitored over a 24-hour period weekly during quarantine, daily for the first week of the study, and on Day 14. The animals in each group were euthanized

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New Zealand White Rabbits

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and submitted for necropsy on Day 14. The majority of clinical signs were observed with relatively equal incidence among the treatment and control groups. Clinical signs observed with increased frequency in the HSD-, HS-, and D70-treated groups included hyperactivity and apprehension. The incidence and severity of observed signs was greatest 1 hour after dosing, and declined over the following 24 hours until dosing was repeated the next day. One mortality was observed among HSD-treated animals, one among HS-treated animals, and 2 among those treated with D70. Increased water consumption was observed in the HSD- and HS-treated groups throughout the study period. D70- and HSD-treated animals exhibited significant decreases in albumin (ALB), albumin/globulin ratio (A-G), cholesterol (CHOL), triglyceride (TRIG), calcium (CAL), iron (IRON), magnesium (MAG), erythrocyte count (RBC), hemoglobin (HGB), hematocrit (HCT), and total leukocyte count (WBC). The decreases in ALB, A-G, CAL, RBC, HGB, and HCT were dose related, being more severe for the high dose groups. The effects on ALB, A-G, RBC, HGB, and HCT became more pronounced as repeated daily dosing continued through the 14-day study period. Significant increases in total protein, and slight but statistically significant increases in aspartate aminotransferase (AST) and alkaline phosphatase (ALK) were observed following treatment with D70 or HSD. Serum chemistry and hematologic measurements of HS-treated animals were relatively unaffected by dosing. Body weights were unaffected by dosing, and no gross or microscopic lesions could be attributed to HSD or its constituents. Since the proposed therapeutic dose of HSD is a single dose of only 4 ml/kg, these findings indicate minimal adverse effects should be anticipated with the therapeutic administration of HSD.

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## ABSTRACT

The subacute toxicity following intravenous administration of a proposed resuscitation fluid, hypertonic saline/Dextran 70<sup>®</sup> (HSD), was evaluated in male and female New Zealand White rabbits. Animals received intravenous doses of HSD, at levels of 8, 12, and 16 ml/kg/day over a 5-minute period, daily for 14 days. Equal volumes of each HSD component, 7.5% hypertonic saline (HS) and 6% Dextran 70<sup>®</sup> (D70) in normal saline, were also evaluated. Ringer's lactate (RL), dosed at 16 ml/kg/day, served as the control. Blood samples were collected for serum chemistry and hematologic analyses on Days -7 and 0 (baseline), Days 1, 2, 3, and 7 before daily administration of the dosing solutions, and Day 14 before necropsy. Observations were made daily before dosing, 1 hour after dosing, and in the afternoon. Water consumption was monitored over a 24-hour period weekly during quarantine, daily for the first week of the study, and on Day 14. The animals in each group were euthanized and submitted for necropsy on Day 14. The majority of clinical signs were observed with relatively equal incidence among the treatment and control groups. Clinical signs observed with increased frequency in the HSD-, HS-, and D70-treated groups included hyperactivity and apprehension. The incidence and severity of observed signs was greatest 1 hour after dosing, and declined over the following 24 hours until dosing was repeated the next day. One mortality was observed among HSD-treated animals, one among HS-treated animals, and 2 among those treated with D70. Increased water consumption was observed in the HSD- and HS-treated groups throughout the study period. D70- and HSD-treated animals exhibited significant decreases in albumin (ALB), albumin/globulin ratio (A-G), cholesterol (CHOL), triglyceride (TRIG), calcium (CAL), iron (IRON), magnesium (MAG), erythrocyte count (RBC), hemoglobin (HGB), hematocrit (HCT), and total leukocyte count (WBC). The decreases in ALB, A-G, CAL, RBC, HGB, and HCT were dose related, being more severe for the high dose groups. The effects on ALB, A-G, RBC, HGB, and HCT became more pronounced as repeated daily dosing continued through the 14-day study period. Significant increases in total protein, and slight but statistically significant increases in aspartate aminotransferase (AST) and alkaline phosphatase (ALK) were observed following treatment with D70 or HSD. Serum chemistry and hematologic measurements of HS-treated animals were relatively unaffected by dosing. Body weights were unaffected by dosing, and no gross or microscopic lesions could be attributed to HSD or its constituents. Since the proposed therapeutic dose of HSD is a single dose of only 4 ml/kg, these findings indicate minimal adverse

effects should be anticipated with the therapeutic administration of HSD.

Key Words: Subacute Toxicity, Intravenous Administration, Hypertonic Saline/Dextran 70®, Hypertonic Saline, Dextran 70®, Ringer's Lactate, Resuscitation Fluid, New Zealand White Rabbits

## **PREFACE**

**TYPE REPORT:** Subacute Toxicity GLP Study Report

**TESTING FACILITY:**

US Army Medical Research and Development Command  
Letterman Army Institute of Research  
Presidio of San Francisco, CA 94129-6800

**SPONSOR:** US Army Medical Research and Development Command  
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Project Director: Charles Wade, PhD

**PROJECT/WORK UNIT/APC:** 3S463807D836/087/TLRO

**GLP STUDY NUMBER:** 88010

**STUDY DIRECTOR:** Don W. Korte, Jr., PhD, LTC, MSC  
Diplomate, American Board of Toxicology

**PRINCIPAL INVESTIGATOR:** Gary M. Zaucha, DVM, CPT, VC  
Diplomate, American College of  
Veterinary Preventive Medicine

**CO-PRINCIPAL INVESTIGATORS:** Denzil F. Frost, MS, DVM, CPT, VC  
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Stanley T. Omaye, PhD, DATS

**PATHOLOGIST:** Lu Ann McKinney, DVM, MAJ, VC  
Diplomate, American College of  
Veterinary Pathologists

**DATA MANAGER:** Yvonne C. LeTellier, BS

**REPORT AND DATA MANAGEMENT:**

A copy of the final report, study protocols, retired SOPs, raw data, analytical and stability data, and an aliquot of the test compound will be retained in the LAIR Archives.

**TEST SUBSTANCE:** Hypertonic Saline/Dextran 70®

**INCLUSIVE STUDY DATES:** 30 March 89 - 21 June 89

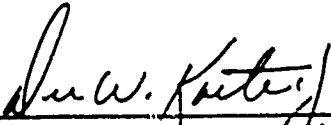
**OBJECTIVE:** The objective of this study was to determine the subacute toxicity of hypertonic saline/Dextran 70® following intravenous administration in male and female New Zealand White rabbits.

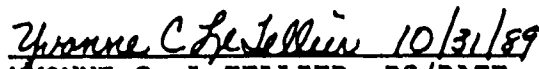
### **ACKNOWLEDGMENTS**

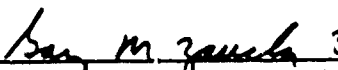
Ginny Gildengorin, PhD, provided assistance in the statistical analysis of data. SGT Tammie Heineman, SGT Barbara D. Green, SPC Dean K. Magnuson, BS, SPC Vilmar O. L. Villa, BS, Richard Katona, and Charlotte L. Gomez provided assistance in dose preparation and administration, data collection, animal care, and facility management. SGT Gayle A. Orner, BS, and SGT William J. Nieding, BS, provided assistance in dose preparation and administration.

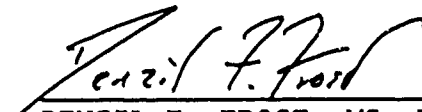
**SIGNATURES OF PRINCIPAL SCIENTISTS AND MANAGERS  
INVOLVED IN THE STUDY**

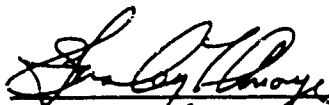
We, the undersigned, declare that GLP study number 88010 was performed under our supervision, according to the procedures described herein, and that this report is an accurate record of the results obtained.

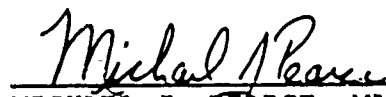
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LTC, MSC  
Study Director

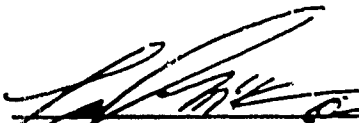
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DEPARTMENT OF THE ARMY  
LETTERMAN ARMY INSTITUTE OF RESEARCH  
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REPLY TO  
ATTENTION OF:

SGRD-ULZ-QA

26 October 1989

MEMORANDUM FOR RECORD

SUBJECT: GLP Compliance for GLP Study 88010

1. This is to certify that in relation to LAIR GLP Study 88010 the following inspections were made:

11 July 1988	- Protocol Review
14 October 1988	- Animal Receipt
19 October 1988	- Randomization
25 October 1988	- Observations
25 October 1988	- Dosing
25 October 1988	- Weighing
26 October 1988	- Hematology
27 October 1988	- Weighing Water Bottles
27 October 1988	- Serum Chemistry
31 March 1989	- Animal Receipt
10 April 1989	- Water Consumption
10 April 1989	- Weighing Animals
26 April 1989	- Dosing
28 April 1989	- Serum Analysis
01 May 1989	- Observations/Scoring
13 June 1989	- Necropsy

2. The institute report entitled "Fourteen-Day Subacute Intravenous Toxicity Study of Hypertonic Saline/Dextran 70<sup>c</sup> and its Constituents in New Zealand White Rabbits," Toxicology Series 248, was audited on 20 October 1989.

*Carolyn M. Lewis*

CAROLYN M. LEWIS  
Diplomate, American Board of  
Toxicology  
Quality Assurance Auditor

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**Fourteen-Day Subacute Intravenous Toxicity Study of Hypertonic Saline/Dextran 70® and its Constituents in New Zealand White Rabbits -- Zaucha et al.**

**INTRODUCTION**

During conventional land warfare, it has been estimated that 90% of the deaths occur either in the field or en route to a fixed medical treatment facility and that 50% of those deaths occur due to hemorrhage (1). Conventional treatment of hemorrhage has involved infusion of isotonic resuscitation fluids at volumes equivalent to two or three times the volume of blood lost (2). Supplying this volume of resuscitation fluid on the battlefield for treatment of multiple casualties is not feasible.

Hypertonic crystalloid solutions have been used for the past 70 years in the treatment of hemorrhage (3). However, the consensus has been that unless followed by replacement of the lost blood volume, the beneficial effects of treatment with hyperosmotic solutions are transient (4). Recently, the addition of a hyperoncotic colloid, 6% Dextran 70®, to the hypertonic crystalloid, 7.5% saline, has significantly extended 96-hour survival rates compared with those obtained with normal saline or 7.5% saline (5). Should the effectiveness of this hypertonic saline/Dextran therapy be verified by clinical trial, it would provide a significant advance in the treatment of blood loss due to traumatic injuries.

As with any new treatment regimen, there are potential risks. Low molecular weight dextran could cause bleeding abnormalities and phlebitis or possibly interfere with the cross-matching of blood (6). Hypertonic solutions could cause neurologic abnormalities induced by the rapid increases in osmolalities (7-9) or cardiac arrhythmias induced by the hypokalemia associated with the rapid expansion of extracellular space (2, 10). Consequently, the Division of Toxicology, Letterman Army Institute of Research, was tasked to provide an acute and subacute toxicity profile of the 7.5% hypertonic saline/6% Dextran 70® resuscitation fluid (HSD). This report describes the results of a 14-day subacute toxicity study of hypertonic saline/Dextran 70® following intravenous administration in male and female New Zealand White rabbits.

Objective of Study

The objective of this study was to determine the 14-day subacute toxicity of hypertonic saline/Dextran 70® following intravenous administration in male and female New Zealand White rabbits.

**MATERIALS**

Test Substance

Name: Hypertonic saline/Dextran 70® (HSD)

LAIR Code No.: TP96

Lot Number: OD 59331

Expiration Date: 31 October 1989

Composition per 100 ml:   Dextran 70®                   6 g  
                          sodium chloride           7.5 g  
                          water for injection to 100 ml

Source:   Pharmacia LEO Pharmaceuticals  
          Uppsala, Sweden

Test Substance Constituents

Name: Hypertonic (7.5%) saline (HS)

LAIR Code No.: TP98

Lot Number: OD 59339

Expiration Date: 31 October 1989

Composition per 100 ml:   sodium chloride           7.5 g  
                          water for injection to 100 ml

Source:   Pharmacia LEO Pharmaceuticals  
          Uppsala, Sweden

Name: Dextran 70® (D70)

LAIR Code No.: TP95

Lot Number: OD 59340

Expiration Date: 30 April 1990

Composition per 100 ml:   Dextran 70®                   6 g  
                          sodium chloride           0.9 g  
                          water for injection to 100 ml

Source:   Pharmacia LEO Pharmaceuticals  
          Uppsala, Sweden

#### Control

Name:   Ringer's lactate (RL)

LAIR Code No.:   TP97

Lot Number:   OD 59336

Expiration Date:   31 October 1989

Composition per 100 ml:   sodium chloride           600 mg  
                          potassium chloride       30 mg  
                          calcium chloride  
                          dihydrate                   20 mg  
                          sodium lactate           310 mg  
                          water for injection to 100 ml

Source:   Pharmacia LEO Pharmaceuticals  
          Uppsala, Sweden

Other test substance information is presented in  
Appendix A.

#### Animal Data

Fifty male and 50 female New Zealand White rabbits (Hazleton Research Products, Inc., P.O. Box 7200, Denver, PA 17517) were assigned to this study. They were identified individually with ear tags and corresponding LAIR animal identification numbers. In addition, 4 male and 1 female rabbits were utilized for quality control necropsy. The animal weights on receipt (30 March and 4 May 89, males; and 11 May 89, females) ranged from 2.31 to 3.63 kg (weights recorded 31 March and 16 May, and 12 May 89, males and females, respectively). Additional animal data are presented in Appendix B.

#### Husbandry

Study animals were individually housed in stainless steel battery-type cages with screen bottoms, in racks. The diet, fed *ad libitum*, consisted of Certified Purina Rabbit

Chow® 5322 (Ralston Purina Company, St. Louis, MO); water, purified by reverse osmosis, was provided by individual water bottles with sipper tubes. The animal room temperature and humidity were monitored continuously by hygrothermograph. The temperature was maintained in a range from 15.0°C to 26.7°C. The relative humidity was maintained in a range of 34% to 63% with occasional spikes to as high as 75% during room cleaning. The photoperiod was 12 hours of light per day (0600-1800 hours).

## METHODS

This study was conducted in accordance with FDA guidelines (11) and LAIR SOP-OP-STX-74 (12).

### Group Assignment/Acclimation

The animals were randomized into ten groups of 5 male and 5 female animals each (Table 1). Allocation was accomplished using a computer-based, stratified, weight-biased method. The XYBION Path/Tox AESLCT Animal Allocation Program was used in conjunction with a VAX 750 Computer.

The study animals were acclimated for a minimum of 12 days before the day of dosing. During this period they were quarantined, checked daily for signs of illness, and water consumption and body weights were measured weekly.

### Dose Levels, Preparation, and Analysis

The maximum tolerated intravenous dose of HSD administered daily over a 5-minute period for 14 days was established at 16 ml/kg/day in preliminary pilot studies. This dose was chosen as the high dose level for HSD, HS, and D70. Intermediate (12 ml/kg/day) and low (8 ml/kg/day) dose levels for HSD, HS, and D70 were chosen as multiples of the proposed therapeutic dose (4 ml/kg). RL was administered to the controls at the high dose level only. Solutions were used as supplied by the manufacturer, Pharmacia LEO Pharmaceuticals. Analysis of the dosing solutions was provided by Pharmacia LEO Pharmaceuticals. Additional chemical data are presented in Appendix A.

### Test Procedures

The subacute intravenous toxicity of hypertonic saline/Dextran 70® was evaluated in parallel with solutions of its major constituents, hypertonic (7.5%) saline and

TABLE

Dose Group

Group	n (each sex)	Solution	Dose Level (ml/kg/day)
1	5	hypertonic saline/Dextran 70®	8
2	5	hypertonic saline/Dextran 70®	12
3	5	hypertonic saline/Dextran 70®	16
4	5	hypertonic saline	8
5	5	hypertonic saline	12
6	5	hypertonic saline	16
7	5	Dextran 70/normal saline	8
8	5	Dextran 70/normal saline	12
9	5	Dextran 70/normal saline	16
10	5	Ringer's lactate	16

Dextran 70® (6%) in normal saline, with Ringer's lactate serving as the control. The study was conducted in 2 phases. Phase I consisted of the male study animals and Phase II consisted of the females. To facilitate distribution of the workload, animals of each phase were further divided into subgroups of 8-13 animals, and a staggered start date for initial dosing of each subgroup was used. Dosing began 25, 26 April, 2, 3, and 17 May 1989 for the five Phase I subgroups and 30, 31 May, 6, and 7 June 1989 for the four Phase II subgroups.

Dosing solutions were administered via surgically implanted femoral vein catheters (Intramedic® non-radiopaque polyethylene tubing, PE-160, Clay Adams, Division of Becton Dickinson & Co., Parsippany, NJ, Lot No. 91023, Exp. Date 12-91). All catheterizations were performed in the LAIR surgical suite under aseptic conditions. A mixture consisting of 10 cc ketamine HCL (Vetalar®, 100 mg/ml, Parke-Davis, Division of Warner Lambert Co., Morris Plains, NJ, Lot No. 02467P, Exp. Date 5 1990), 1 cc xylazine (Rompun®, 20

mg/ml, Mobay Corporation, Animal Health Division, Shawnee, KS, Lot No. 260028C, Exp. Date 8-91), and 0.5 cc acepromazine (Tech America™, Acepromazine maleate injection, 10 mg/ml, Fermenta Animal Health Co., Kansas City, MO, Lot No. 8229A, Exp. Date 8-91) was administered to effect, intramuscularly for induction, and intravenously for maintenance of anesthesia for the surgical procedure. To prepare the animals for surgery, the hair of the inguinal region, medial thigh, and lumbar region was removed and the surgical site aseptically prepared and draped. An incision was made in the skin above the femoral vein. The vein was isolated and the polyethylene tubing was introduced through a nick incision in the vein. Catheters were advanced proximally into the vena cava and secured to the femoral vein with silk suture material (0 Silk, black braided, Ethicon®, Lot No. SJ2CVR B). A second incision was made in the dorsal midline of the lumbar region and a subcutaneous tunnel was formed around the body to connect with the femoral incision. The femoral catheter was threaded through the tunnel to exit at the dorsal incision. The femoral incision was closed with subcutaneously placed Dexon® (3-0 Dexon® "S", beige braided polyglycolic acid, Davis + Geck, Inc., Manati, PR, Lot No. 847444) and cutaneously placed polypropylene suture material (3-0 Prolene®, blue monofilament, Ethicon®, Lot No. ZM7227 D). A velcro patch (Velcro® Fastening Systems, Velcro U.S.A., Inc., Manchester, NH, Lot No. 087104/05A8) was sutured over the dorsal lumbar incision with nylon suture material (Nylon 0, black monofilament, Deknatel, Lot No. 0796) to secure the free end of the catheter. Catheters were flushed with heparinized saline (Heparin Sodium Injection, USP, Invertex Laboratories, Div. of Life Technologies, Inc., Chagria Falls, OH, Lot No. 338619P-F, Exp. Date 5-30-89; 0.9% Sodium Chloride Irrigation, USP, Travenol Laboratories, Inc., Deerfield, IL, Lot No. 6784314, Exp. Date Mar 91) prior to introduction, and as needed during surgery to maintain patency. After recovery, the animals were fitted with Elizabethan collars which were worn continuously until euthanasia on Day 14. Prophylactic antibiotics (0.2 ml/dose, Sterile Cephazolin Sodium, U.S.P., 1 gm/2.5 ml, LyphoMed, Inc., Rosemont, IL, Lot Nos. 380425 and 380578, Exp. Dates 5-30-90 and 6-30-90, respectively) were administered at least 1 hour prior to surgery, and were continued three times daily for 3 days after surgery.

Individual doses of test solution were calculated for Days 0-6 using the Day -1 body weights. Doses for Days 7-13 were calculated using the Day 7 body weights. The test solutions were administered between 0725 and 1445 each day. Animals were dosed in subgroups of 8-13 animals, in order of animal number. Group order within each subgroup was random.

When one series of injections was completed, the next subgroup of 8-13 animals was dosed until all animals were dosed for the day. Injections were made using 60 cc syringes (Becton Dickinson & Co., Rutherford, NJ, Lot Nos. 6K441 and 6E417). When not being used for administration of the test solution, or for obtaining blood samples for analysis, the catheters were filled with heparinized (1000 units/ml) sterile water for injection (Sterile Water for Injection, Abbott Laboratories, North Chicago, IL, Lot No. 14-135 FW, Exp. Date 1 Mar 90; Heparin, Elkins-Sinn, Inc., Cherry Hill, NJ, Lot No. 108062, Exp. Date 10-91) to maintain patency. In the event of femoral catheter failure, butterfly catheters (Intravenous Injection Set, 21-gage needle-pediatric, disposable type, size 2, Sherwood Medical Co., St. Joseph, MO, Lot No. 511838) were used to inject the test solutions via the ear veins.

### Observations

During the 14-day observation period, clinical observations were accomplished daily before dosing, 1 hour after dosing, and in the afternoon. Body weights were recorded upon receipt of the animals, weekly during the quarantine and observation periods, and at necropsy. Water consumption was monitored for a twenty-four hour period, weekly during quarantine, daily for the first week of the study, and at 14 days. Blood samples were collected for serum chemistry and hematologic analyses on Days -7 and 0 (baseline), Days 1, 2, 3, and 7 before daily administration of the dosing solutions, and on Day 14 at necropsy. Blood collection was accomplished through the femoral catheters by first aspirating and discarding 1-2 cc of blood to clear the catheter of heparin. Additional blood was then collected for hematology, clotting time determinations, and serum chemistries in EDTA, citrate, and plain serum tubes, respectively. When it was not possible to draw sufficient blood from the catheter, samples were collected from the central artery of the ear. After collection, the citrated samples were immediately placed on ice until centrifugation. All samples for serum chemistry and clotting time determinations were centrifuged within an hour after collection and the serum or plasma frozen at  $-10^{\circ}\text{C}$  to  $-22^{\circ}\text{C}$  without interruption until analyzed. Direct and indirect ophthalmic examinations of all study animals were performed on Day -1 or Day 0 before dosing, and on Day 13.

### Necropsy

All animals were submitted for necropsy on Day 14 immediately after receiving a lethal dose of a barbiturate

solution. Histopathologic examination was performed on the brain, including sections of the medulla/pons, cerebellar cortex, and cerebral cortex; spinal cord; eyes; thigh musculature/sciatic nerve; diaphragm; bone marrow (femur); pituitary; thyroid/parathyroids; trachea; gut lymph tissue; salivary gland; thymus; lungs; spleen; mesenteric lymph node; mammary gland/skin; kidneys/adrenals; pancreas; liver; gall bladder; gonads; uterus/prostate and epididymis; urinary bladder; ureter; heart; aorta; esophagus; stomach; duodenum; jejunum; ileum; colon; and cecum.

### Statistical Analysis

The means and standard deviations for the body weight, water consumption, serum chemistry, and hematology data for each group were calculated. Body weight, water consumption, serum chemistry, and hematology data were analyzed for each sex separately using the BMDP statistical software package (13). To assure that no differences existed among the groups prior to dosing, the body weight, water consumption, serum chemistry, and hematology baseline (Day 0) data were subjected to a one-way analysis of variance (ANOVA) using solution/dose group as the factor of interest. If the F-statistic was significant for an analysis of variance for a particular measurement, differences among the groups were evaluated using the Student-Newman-Keuls multiple range test. For Days 1 through 14, the data for groups 1 through 9 were subjected to a three-way analysis of covariance using solution group (HSD, HS, D70), dose level (8, 12, 16 ml/kg/day), and time (study day) as the factors of interest, with each respective baseline serving as the covariate. Since the control group did not have 3 dose levels, it could not be included in the 3-way analysis. If the F-statistic was significant for an analysis of covariance for a particular measurement, differences among the groups and doses were evaluated using the Student-Newman-Keuls multiple range test. If time was a significant factor, the Newman-Keuls was performed for each time point separately. In addition, the water consumption, serum chemistry, and hematology data of each solution/dose group were subjected to a separate analysis of variance to determine if significant differences from baseline (Day 0) values occurred. If the F-statistic was significant for this analysis of variance, each time period was compared to the group's baseline value using the Dunnett's t test. All statistical tests were performed at the 0.05 level of significance. Clinical signs and gross and microscopic pathology findings were described for each animal and tabulated by groups.



Duration of Study

Appendix C is a complete historical listing of study events.

Changes/Deviations

The protocol schedule refers to the first day of dosing as Day 0. Since XYBION programming refers to the first day of dosing as Day 1, a one-day discrepancy exists between the actual study day and the study day listed in the XYBION printouts for Appendix D: Individual Animal Histories, and Appendix I: Pathology. After initial randomization into dose groups, a number of animals died from the anesthesia employed during catheterization before the initiation of dosing. Replacement animals were added to each respective groups to maintain group size at  $n = 5$ . Since the replacement animals were not originally scheduled in the study, their Day -7 blood samples were actually collected at the following times: 89F00- 156, 168, and 391 at Day -4; 89F00- 393 and 394 samples not taken. Animals 89F00- 130 and 147 required catheter replacement which delayed their scheduled start dates. Therefore, their Day -7 samples were actually collected at Day -8 and Day -13, respectively. In the event of femoral catheter failure after the initiation of dosing, animals were dosed using butterfly catheters via the marginal ear veins, and blood samples were collected via the central artery of the ear. Ophthalmic examinations were conducted on Day -1 or Day 0 prior to dosing, instead of Day -1 as scheduled in the protocol. Day 3 clotting time samples collected for animals 89F00- 130, 164, 165, 166, 169, 171, 172, 173, 175, 176, and 177 were unsuitable for analysis due to a technical error. The missing data is listed as not taken (NT) in Appendix H: Hematology. Day 0 water consumption for the following animals was inadvertently not recorded: 89F00- 257, 258, 259, 261, 263, 264, 266, and 267. Therefore, Day -7 values were used for their respective baselines in order to complete the data for statistical analysis of water consumption. Body weights were inadvertently not recorded during the first week of quarantine for replacement animals 89F00- 389, 390, 392, 393, and 394. A 4-hour power failure occurred on 20 May 1989 resulting in a period of darkness during the daylight phase. After resumption of electrical power, lighting was at 73% of normal due to electrical damage. Full lighting returned on 23 May 1989. The female study animals were on quarantine and only the last 8 male animals (89F00- 257, 258, 259, 261, 263, 264, 266, and 267) were on dosing at this time. It was not always possible to aspirate the heparinized flush from all catheters prior to dosing. Therefore, approximately 0.5 cc

of heparinized water for injection, which had been instilled in the catheters to maintain patency between dosing, was injected into the affected animals at subsequent dosing. Although affected animals were randomly distributed among the dose groups, the heparin may have affected the prothrombin time (PT) and activated partial thromboplastin time (APTT) data. For PT and APTT data, the term "TNTC" is used to denote a value exceeding 150 seconds. In the case of PT data, such readings were determined to be erroneous, and were dropped from the group statistical calculations. However, in the case of APTT data, the preponderance of "TNTC" readings required that they be included in the statistical calculations. To facilitate their inclusion, a value of 150 was substituted for TNTC for statistical calculations of APTT data.

Other than a possible compromise of the clotting time data, it is believed that these changes had no adverse effects on the results of this study.

#### Storage of Raw Data and Final Report

A copy of the final report, study protocol, raw data, retired SOPs, and an aliquot of the test compounds will be retained in the Letterman Army Institute of Research Archives.

## **RESULTS**

### Clinical Observations

The clinical signs observed were grouped into behavioral, general, respiratory, gastrointestinal, ocular, and skin categories. With the exception of hyperactivity, apprehension, and death, all major clinical signs were observed with relatively equal distribution among the treatment groups and RL-treated controls. The incidence of signs was not dose-related.

Behavioral signs was the most frequently observed category. Major behavioral signs observed included disorientation (99 of 100 animals), inactivity (93 of 100), incoordination (79 of 100), tremors (76 of 100), hyperactivity (36 of 100), apprehension (31 of 100), increased startle reflex (27 of 100), aggression (19 of 100), and depression (10 of 100). Hyperactivity was observed most frequently in animals treated with HS, followed in order by those treated with HSD, D70, and RL. Apprehension was observed only in female animals, and occurred primarily in

those treated with D70, followed by those treated with HS, HSD, and RL. Disorientation, inactivity, incoordination, tremors, hyperactivity, increased startle reflex, aggression, and depression occurred with relatively equal distribution among the treatment groups and controls of both sexes. The remaining behavioral signs, irritability, head swaying, and chewing, occurred sporadically during the study period, and were randomly distributed among the groups. The incidence and severity of behavioral signs was greatest one hour after dosing each day. A gradual reduction in incidence and severity then occurred. However, clinical signs were still evident 24 hours after dosing in most animals.

General signs observed included hunched posture (99 of 100), wide-legged stance (53 of 100), decreased appetite (19 of 100), lameness (15 of 100), nasal material or stain (15 of 100), swelling or edema of the testicles (10 of 50 males), discoloration of the testicles (10 of 50 males), ventral edema (5 of 100), and bloody or discolored urine (2 of 100). All general signs were observed with relatively equal incidence among the treatment groups and controls. Wide-legged stance and foreleg lameness were attributable to the Elizabethan collars. Hindleg lameness, swelling and discoloration of the testicles, and ventral edema were attributable to catheter implantation surgery and catheter leakage.

Respiratory signs included increased respiratory rate (76 of 100), increased respiratory depth (46 of 100), congestion (7 of 100), raspy breathing (7 of 100), and labored breathing (1 of 100). All respiratory signs were observed with relatively equal incidence among the treatment groups and controls.

Gastrointestinal signs included loose stool (14 of 100), diarrhea (4 of 100), and mucus in the stool (2 of 100). None of the gastrointestinal signs could be attributed to any particular dosing solution or dose level.

The ocular signs included dilated pupils (41 of 100), redness of the eyes (20 of 100), ocular discharge (8 of 100), increased lacrimation (5 of 100), squinting (5 of 100), exophthalmus (4 of 100), and extension of the nictitating membrane (1 of 100). None of the ocular signs could be attributed to any particular dosing solution or dose level.

The skin signs occurred equally among groups and were attributable to the Elizabethan collars or catheters.

Direct and indirect ophthalmic examinations conducted prior to the initiation of dosing and on Day 13, revealed no

visible lesions attributable to the dosing solutions in any of the study animals.

Four mortalities were recorded during the study period. These included 1 male treated with high doses of HSD (Day 11), 2 males treated with middle doses of D70 (Days 6 and 13), and 1 female treated with high doses of HS (Day 1).

A summary of clinical observations is presented in Table 2. Individual animal histories are presented in Appendix D.

#### Body Weights

Group mean body weights are presented in Table 3. Individual animal body weights are presented in Appendix E. No statistically significant differences were detected among the treatment groups (HSD, HS, and D70) or dose levels (8, 12, and 16 ml/kg/day) at baseline (Day 0), or following the initiation of dosing (Days 7 and 14). However, decreases in body weight were observed for all male treatment groups and dose levels, including the controls, following the initiation of dosing. When the mean values at each time point (Days 7 and 14) were compared to the baseline values (Day 0) for each respective group and dose level, statistically significant decreases in body weight were observed at Days 7 and 14 for male animals receiving low doses of HS, and at Day 14 for males receiving low doses of HSD or high doses of HS. Significant increases in body weight were observed for female animals treated with low doses of HSD. Inspection of the data revealed that the majority of the remaining female study groups also exhibited weight gains during the study period.

#### Water Consumption

Group mean water consumption data are presented in Table 4. Individual animal water consumption data are presented in Appendix F. No statistically significant differences were detected among the treatment groups (HSD, HS, and D70) or dose levels (8, 12, and 16 ml/kg/day) at baseline (Day 0). Following the initiation of dosing, dose level was not found to be a statistically significant factor affecting water consumption. Significant group effects, however, were observed for male and female study animals. Throughout the study period, HS- and HSD-treated animals consumed greater amounts of water than those treated with D70 or RL. Inspection of the data also revealed that HS-treated animals consistently consumed greater amounts of water than those treated with HSD. The differences between D70-treated animals and those treated with HSD or HS were statistically significant at Days 2, 3, and 5 for the males, and at Day 14

for the females. The water consumption of D70- or RL-treated animals either decreased or remained relatively unchanged compared to baseline levels. When the mean values at each time point (Days 1, 2, 3, 4, 5, 6, 7, and 14) were compared to the baseline values (Day 0) for each respective group and dose level, statistically significant decreases in water consumption were observed at Day 14 for male animals receiving low doses of D70, and at Days 3 through 14 for males receiving high doses of D70. Although not statistically significant, the water consumption of male and female animals receiving middle or high doses of HS or HSD generally increased compared to respective baseline values.

### Serum Chemistry

Group mean serum chemistry data are presented in Table 5. Individual serum chemistry data are presented in Appendix G.

No statistically significant differences were detected among the treatment groups (HSD, HS, and D70) or dose levels (8, 12, and 16 ml/kg/day) at baseline (Day 0). When the mean values at each time point (Days 1, 2, 3, 7, and 14) were compared to baseline values (Day 0) for each respective group and dose level, no statistically significant alterations from baseline were observed in any of the serum chemistry measurements for the RL-treated controls of either sex, or for HS-treated males. For HS-treated females, the only statistically significant alterations from baseline were decreases in sodium (NA) at Days 2, 7, and 14 (high-dose group), and decreases in alkaline phosphatase (ALK) at Days 2, 3, 7, and 14 (middle-dose group). Compared to baseline values, significant decreases in NA were also observed for females treated with low and high doses of HSD (Days 7 and 14) and low (Days 7 and 14), middle (Days 2, 3, 7, and 14), and high (Days 2, 3, 7, and 14) doses of D70. At Day 2, HSD-treated males exhibited mean NA values significantly less than those of males treated with HS, but no statistically significant differences among treatment groups were detected among the females. Despite fluctuations from baseline values, NA levels of all groups remained within generally accepted normal limits throughout the study period.

D70- and HSD-treated animals exhibited transient increases in ALK, followed by return to levels only slightly above to slightly below baseline values. Compared to baseline values, statistically significant increases in ALK were observed for male animals treated with middle doses of HSD (Days 1, 2, and 3) and low doses of D70 (Days 2 and 3), and for females treated with high doses of D70 (Days 1, 2,

and 3). The mean ALK values for D70-treated male animals were significantly greater than those of males treated with HS at Days 1, 2, 3, 7, and 14. HSD-treated males exhibited ALK values significantly greater than those of HS-treated males at Days 2, 7, and 14. Although females treated with HSD or D70 exhibited ALK levels consistently greater than those of females treated with HS, the differences among the treatment groups were not statistically significant. The changes in ALK were not clinically significant for any of the treatment groups.

Following the initiation of dosing, D70- and HSD-treated animals exhibited significant decreases in mean albumin (ALB), albumin-globulin ratio (A-G), cholesterol (CHOL, females only), calcium (CAL), magnesium (MAG, males only), and iron (IRON, females only). The decreases in ALB and A-G were progressive for both sexes, while the decreases in CHOL and CAL were progressive only for the females. The decreases in ALB and A-G were dose-related, with the high-dose groups of either sex being more severely affected than the low-dose groups. A significant dose response was observed in the mean CAL values for female animals only. Inspection of the data also revealed a dose response for the decrease in CHOL observed for female study animals treated with HSD or D70, but the differences among the dose groups were not statistically significant.

At Days 2, 3, 7, and 14, the ALB and A-G for HSD- and D70-treated animals of either sex were significantly less than those of animals treated with HS. The dose effect for ALB was statistically significant at Days 3 and 7, and Day 7 for the males and females, respectively. The dose effect for A-G was statistically significant at Days 2 and 3, and Day 7 for the males and females, respectively. When the mean values at each time point (Days 1, 2, 3, 7, and 14) were compared to baseline values (Day 0) for each respective group and dose level, significant decreases in ALB were observed for male animals treated with low (Days 7 and 14), middle (Days 3, 7, and 14), and high (Days 7 and 14) doses of HSD, and low (Days 7 and 14), middle (Days 7 and 14), and high (Days 3, 7, and 14) doses of D70; and for females treated with middle (Days 1, 2, 3, 7, and 14) and high (Days 2, 3, 7, and 14) doses of HSD, and low (Days 1, 2, 3, 7, and 14), middle (Days 2, 3, 7, and 14), and high (Days 1, 2, 3, 7, and 14) doses of D70. Compared to baseline values, significant decreases in A-G were observed for males treated with low (Days 7 and 14) and middle (Days 2, 3, 7, and 14) doses of HSD, and low (Days 7 and 14), middle (Days 7 and 14), and high (Days 2, 3, 7, and 14) doses of D70. The A-G of high-dose males receiving HSD also progressively decreased compared to baseline, but the differences from baseline were

not statistically significant. Significant decreases in A-G were observed for females treated with low (Day 14), middle (Days 2, 3, 7, and 14), and high (Days 2, 3, 7, and 14) doses of HSD, and low (Days 2, 3, 7, and 14), middle (Days 2, 3, 7, and 14), and high (Days 1, 2, 3, 7, and 14) doses of D70.

The mean CHOL values for HSD- or D70-treated animals were significantly less than those of animals treated with HS at Days 7 and 14, and Days 2, 3, 7, and 14 for the males and females, respectively. Compared to baseline values, the mean CHOL levels for HSD- or D70-treated male animals were unaffected by dosing, while males receiving HS or RL exhibited moderate increases. The increases in CHOL observed for the HS- or RL-treated males, however, were not statistically significant. Statistically significant decreases in CHOL were observed for females treated with low (Days 1, 2, 3, 7, and 14), middle (Days 7 and 14), and high (Days 2, 3, 7, and 14) doses of HSD, and middle and high doses of D70 (Days 1, 2, 3, 7, and 14). The mean CAL values for animals of either sex treated with HSD or D70 were significantly less than those of HS-treated animals at Days 7 and 14. The CAL of females treated with D70 was also significantly less than that of females treated with HS at Day 3. The dose-response observed for decreases in CAL (high-dose animals affected more severely), although evident throughout the study period for both sexes, was statistically significant only for the females at Day 7. When compared to baseline values, the CAL was significantly decreased for male animals treated with high doses of HSD (Days 2, 7, and 14), and low (Days 1, 2, 3, 7, and 14) and high (Days 2, 3, 7, and 14) doses of D70; and for females treated with low (Day 14), middle (Days 1, 2, 3, 7, and 14), and high (Days 2, 3, 7, and 14) doses of HSD, and low (Day 14), middle (Days 1, 3, 7, and 14), and high (Days 1, 2, 3, 7, and 14) doses of D70. At Day 2, male animals treated with high doses of HS exhibited mean MAG values significantly less than those treated with middle or low doses of HS, or high doses of HSD or D70. However, from Day 3 through Day 14, HSD- and D70-treated animals exhibited consistently decreased MAG values when compared to the respective dose groups treated with HS.

Compared to baseline values, decreases in MAG values were statistically significant only for male animals receiving low doses of HSD (Day 14), or high doses of D70 (Days 7 and 14). Decreases in IRON were observed in HS- and RL-treated animals as well as those treated with HSD or D70, and no statistically significant differences were detected among the treatment groups. Compared to baseline values, significant decreases in IRON were observed only for female animals treated with middle and high doses of HSD or D70 (Days 7 and 14).

The triglycerides (TRIG) of HSD- or D70-treated animals were also consistently less than those of HS-treated animals of either sex. However, the difference in TRIG was statistically significant only for the males at Day 14, and differences from baseline values were inconsistent with statistically significant decreases observed only for females treated with middle doses of D70 (Days 7 and 14).

Following treatment with D70 or HSD, significant dose-related increases in total protein (TP) were observed. Although several HSD- and D70-treated groups exhibited transient decreases in TP at Days 1, 2, and 3, the mean TP values for all HSD- or D70-treated groups were increased at Days 7 and 14, compared to baseline values. TP levels for HS- or RL-treated animals were relatively unaffected by dosing. Male animals treated with the high dose level of D70 or HSD exhibited significantly greater mean TP values than those treated with HS, at Day 14. The differences between HSD- or D70-treated female animals, and those treated with HS, were statistically significant at Days 3, 7 and 14 for the high-dose groups, and Days 7 and 14 for the middle-dose groups. The dose effect was statistically significant at Days 3 and 14 for HSD-treated males, and Day 14 for D70-treated males. The dose effect was statistically significant at Days 7 and 14 for HSD- and D70-treated females. TP levels were significantly increased compared to baseline values for males treated with middle (Days 7 and 14) and high (Day 14) doses of HSD, and low and high doses of D70 (Day 14), and for females treated with middle (Days 7 and 14) and high (Days 3, 7, and 14) doses of HSD, and middle and high doses of D70 (Days 7 and 14).

Increases in phosphorus were observed in HSD- or D70-treated animals, but similar increases occurred in HS-treated animals and RL-treated controls. At Day 14, HS-treated female animals exhibited mean PHOS values significantly greater than those of animals treated with D70. Compared to baseline values, the increases in PHOS were statistically significant only for females treated with high doses of D70 (Day 7). Slight increases in aspartate aminotransferase (AST) were observed for animals treated with D70 or HSD, but the differences from baseline were not statistically significant. The AST of male and female animals treated with D70 or HSD were consistently greater than those of HS-treated animals, with significant differences being observed only for females at Days 7 and 14.

Other alterations in serum chemistry measurements, although statistically significant, appeared to be randomly distributed among the treatment and dose groups, with little



if any clinical significance. The creatine phosphokinase (CK) of HS-treated males was significantly greater than that of D70-treated males at Day 1. The mean CK values for all treatment groups and controls were elevated beyond normal limits, with maximum levels reported at Days -7, 0, or 1. Elevations in CK were most likely due to tissue manipulations required at femoral catheter implantation surgery. The lactate dehydrogenase (LDH) of HS-treated males was significantly greater than that of HSD- and D70-treated males at Day 14. Random fluctuations in LDH were observed in all treatment and control groups. Statistically significant group and dose effects were detected in the uric acid (URIC) for female study animals at Days 7 and 14, but no significant differences from baseline values were observed, and no group or dose effects were observed for the males. The mean blood urea nitrogen (BUN) levels for male animals treated with middle doses of HSD were significantly decreased compared to baseline values at Days 2 and 3. However, no differences among treatment groups were detected for either sex, and no significant alterations from baseline were detected for the females. At Day 14, females treated with middle doses of HSD exhibited mean chloride (CL) values significantly greater than those treated with middle doses of HS. However, no significant deviations from baseline CL values were observed.

#### Hematology

Group mean hematology data are presented in Table 6. Individual hematology data are presented in Appendix H.

With the exception of the mean corpuscular volume (MCV) for the female animals, no statistically significant differences were detected among the treatment groups (HSD, HS, and D70) or dose levels (8, 12, and 16 ml/kg/day) at baseline (Day 0). At Day 0, the mean MCV value for females to be treated with low doses of HS was significantly greater than those of females to be treated with low doses of HSD, or low, middle, and high doses of D70. This may be attributed to animal 89F000374 that consistently exhibited exceptionally high MCV values. Following the initiation of dosing, D70- and HSD-treated animals exhibited progressive decreases in mean erythrocyte count (RBC), hematocrit (HCT), and hemoglobin (HGB) values. While animals treated with HS or RL also exhibited decreases in these measurements, the significance of the changes observed in the HS- and RL-treated groups were inconsistent between the sexes, and relatively transient. From Day 3 to 14, increases in RBC, HCT, and HGB were observed for most RL- or HS-treated groups, while the values continued to decline for HSD- or D70-treated animals. RBC values for D70- and HSD-treated animals were

significantly less than those of animals treated with HS at Days 7 and 14, and Day 14, for the males and females, respectively. The HCT values for D70- or HSD-treated animals of both sexes were significantly less than those of animals treated with HS at Days 7 and 14. The HGB values for D70- or HSD-treated females were significantly less than those of HS-treated females at Days 7 and 14. For the males, differences among mean HGB values depended upon solution group and dose level. At Day 7, males treated with the low-dose level of HSD or D70 exhibited mean HGB values significantly less than those of males treated with low doses of HS. At Day 14, males treated with low doses of D70 or HSD, middle doses of D70, or high doses of HSD exhibited mean HGB values significantly less than those of males treated with the respective doses of HS. A significant dose response was apparent in the RBC changes for both sexes, and in the HCT and HGB alterations for females. The RBC, HCT, and HGB values for animals receiving middle or high doses of the test solutions were more severely affected than those treated with low doses.

At Day 14, the total leukocyte counts (WBC) for HSD-treated male rabbits were significantly less than those of males treated with HS. D70-treated males exhibited intermediate values. When the mean values at each time point (Days 1, 2, 3, 7, and 14) were compared to baseline values (Day 0) for each respective group and dose level, significant decreases in WBC were observed in male animals treated with low doses of HSD (Days 7 and 14), high doses of HSD (Days 2, 3, 7, and 14), and high doses of D70 (Days 7 and 14). The WBC for males treated with HS or RL remained relatively unchanged compared to the respective baseline values. Although significant group effects for WBC were not observed in female study animals, deviations from baseline values did occur. At Day 14, the mean WBC values for all female treatment and dose groups were decreased compared to the respective baselines. The decreases relative to baseline were significant at Day 7 for females receiving middle doses of D70 and high doses of D70 or HSD. The decreases relative to baseline were significant at Day 14 for females receiving low doses of D70, middle doses of D70, HSD, or HS, high doses of D70 or HSD, and RL.

Alterations in mean corpuscular volume (MCV) and mean corpuscular hemoglobin (MCH) were observed following the administration of HSD, HS, D70, or RL. Differences among the groups, however, were inconsistent as values generally increased or remained relatively unchanged compared to each respective baseline. The only statistically significant group effects for MCV and MCH were observed at Day 14 among male animals. At this time, D70- and HSD-treated males

exhibited significantly greater MCV and MCH values compared to those treated with HS. Statistically significant group effects were not observed in the female study animals. Compared to baseline values, significant increases in MCV were observed for males treated with middle and high doses of HSD (Days 7 and 14), and high doses of D70 (Days 3, 7, and 14). For the females, significant increases in MCV were observed at Day 3 for animals treated with low doses of HSD or D70. Significant increases in MCV were observed at Days 7 and 14 for females treated with low and middle doses of HSD or D70, high doses of D70, middle doses of HS, and RL. Significant increases in MCH were observed for males treated with middle doses of HSD (Days 7 and 14), and females receiving low doses of HSD (Days 3 and 7) or middle doses of D70 (Day 7).

Other statistically significant alterations in hematologic measurements appeared to be randomly distributed among the treatment and dose groups, with little if any clinical significance. Compared to HS-treated animals, atypical lymphocyte values were significantly less for males treated with all dose levels of D70 (Day 2) or HSD (Day 3), and females treated with middle doses of HSD (Day 7). The mean prothrombin times (PT) for D70- and HSD-treated males were significantly greater than those of HS-treated males at Day 14. The mean monocyte counts for D70-treated females were significantly greater than those of HS-treated females at Day 7, and the mean nucleated red blood cell counts (NRBC) for HSD- and D70-treated females were significantly less than those of females receiving HS at Day 1. Compared to baseline values, significant increases in ATL were observed for females treated with low doses of HSD at Day 1; significant increases in reticulocytes were observed for males treated with high doses of HS (Days 7 and 14), low and high doses of D70 (Days 3, 7, and 14), and for males and females treated with RL (Days 3, 7, and 14); significant increases in platelets were observed for males treated with RL (Day 14). At Days 3, 7, and 14, significant increases in heterophils were accompanied by decreases in lymphocytes for males treated with high doses of D70. No statistically significant alterations from baseline values were detected for PT, MONO, or NRBC. The data for activated partial thromboplastin time (APTT) apparently were affected by the heparin used to maintain catheter patency, and therefore, were unsuitable for analysis. Day -7 samples exhibited relatively normal APTT values. However, values obtained from samples collected after implantation of the catheters (Days 0 through 14) were consistently elevated above generally accepted normal limits.

### Necropsy Findings

No gross or microscopic pathological lesions attributable to the test compound or its constituents were reported. Microscopic lesions observed in the study animals were considered as incidental findings, or the result of chronic catheterization and restraint. The Veterinary Pathologist's report is presented in Appendix I.

### **DISCUSSION**

The subacute intravenous toxicity of HSD in New Zealand white rabbits was evaluated by dosing groups of animals with 8, 12, or 16 ml/kg/day, over 5 minutes, daily for 14 days. Dose levels were selected based on multiples of the proposed therapeutic dose, 4 ml/kg (2), and the maximum tolerated dose of HSD which had been established in preliminary studies as 16 ml/kg administered over 5 minutes (14). In addition to dosing with HSD, groups of rabbits were dosed with equal volumes of HS or D70. The control group was dosed with RL at the 16 ml/kg/day dosage. Since RL is an isotonic solution, it provided a basis to compare the effects of the volume administered, and served to demonstrate that changes occurring in HSD-, HS-, or D70-treated animals were, in fact, due to the solutions administered and not normal variation over time resulting from extraneous experimental factors. Therefore, differences between baseline measurements and measurements made after the initiation of dosing with HSD, HS, and D70 can be attributed to the effects of the latter test solutions.

The majority of clinical signs occurred with relatively equal distribution among the treatment groups, dose levels, and control groups. Exceptions to this included hyperactivity and apprehension, which were observed with relatively low incidence among the RL-treated control animals. The greatest incidence and severity of signs were observed 1 hour after dosing. Most clinical signs gradually diminished in incidence or severity during the following 24 hours until dosing was repeated the next day. Four mortalities were also observed among the HSD-, HS-, and D70-treated animals, while none occurred among RL-treated controls. However, no gross or microscopic lesions attributable to the test solutions were reported for any of the unscheduled deaths. The mortalities may have been due to complications resulting from chronic catheterization, as microscopic findings of affected animals included vasculitis, thrombi, infarcts, and bacterial emboli of the lungs, liver, and kidneys. Since the majority of clinical signs occurred

with relatively equal incidence among the treatment and control groups, they were most likely due to the rabbit's sensitivity to hemodynamic changes following the rapid intravenous infusion of large volumes of any solution, and the transient derangement of plasma-tissue osmotic balance expected with hyperosmotic or hyperoncotic solutions.

Changes in body weights could not be attributed to the test solutions.

The water consumption for HSD- and HS-treated animals was consistently greater than that of animals treated with D70 or RL. While D70- and RL-treated animals exhibited significant decreases in water consumption during the study period, HSD- and HS-treated animals consumed increased quantities of water relative to respective baseline values. This is consistent with the increased water volume required for excretion of the excess NaCl component of these solutions. The lack of significant differences in body weights among the treatment groups indicates that the increased water consumption exhibited by HSD- and HS-treated animals did not result in over hydration.

Statistically significant decreases in albumin (ALB), albumin/globulin ratio (A-G), cholesterol (CHOL), calcium (CAL), magnesium (MAG), triglycerides (TRIG), and iron (IRON) were observed for animals treated with HSD or D70. The decreases in ALB, A-G, CHOL, and CAL were dose related, with animals receiving the high dose levels being more severely affected than those receiving low dosages. The decreases in CHOL and CAL were progressive for the females, while decreases in ALB and A-G were progressive for both sexes, becoming more severe with each successive sampling day.

Decreases in the erythrocyte count (RBC), hemoglobin (HGB), hematocrit (HCT), and total leukocyte count (WBC) were also observed for animals treated with HSD or D70. The decreases in RBC were dose related, being more severe for the high dose groups of both sexes. Decreases in HGB and HCT were dose related only in the female animals. Decreases in RBC, HGB, and HCT were also observed for HS- and RL-treated animals, but the hematologic changes for these groups were inconsistent between the sexes, and relatively transient. Decreases in RBC, HGB, and HCT progressed through Day 14 for HSD- and D70-treated animals. Significant increases in reticulocyte count (RET), mean corpuscular volume (MCV), and mean corpuscular hemoglobin (MCH) were observed randomly among treatment groups.

The decreases in ALB, A-G, CHOL, CAL, MAG, TRIG, IRON, RBC, HGB, HCT, and WBC associated with the repeated daily

administration of HSD or D70 may be attributed to the gradual accumulation of dextran in the serum, and subsequent progressive hemodilution. Data collected after the administration of a single dose of dextran at a dosage of 20 ml/kg in beagle dogs (15), indicated that at 24 hours after infusion, only 40% of the dextran had been removed from the serum (M. Dubick, Letterman Army Institute of Research, personal communication). M. Dubick has also observed that the half-life of dextran in the rabbit is approximately 7.4 hours. Twenty-four hours after dosing, dextran concentrations would still be elevated and detectable in the serum. Therefore, the repeated administration of dextran-containing solutions every 24 hours would result in gradually increasing serum dextran concentrations until a plateau is reached several days after the initiation of dosing. A progressive expansion of plasma volume may accompany the increasing serum dextran concentrations, resulting in hemodilution and relative decreases in the affected serum chemistry and hematologic measurements. Ultimate serum dextran concentrations, and the resulting degree of hemodilution, would be dependent upon dose level and the rate of clearance of dextran from the serum. Dose level has been determined to be a significant factor affecting the decreases in ALB, A-G, CAL (females), RBC, HGB (females), and HCT (females) observed in this study.

The transient decreases in RBC, HGB, and HCT, and significant decreases in IRON observed for HS- and RL-treated animals, suggest that the repeated blood sampling may also have contributed to decreases in these measurements for all treatment groups. Considering the average blood volume of a rabbit to be 60 ml/kg, seven blood samples (Days -7, 0, 1, 2, 3, 7, and 14) of 5 ml/sample, would have resulted in the loss of approximately 17% of the blood volume for a 3.4 kg rabbit. Such a loss would be expected to have a measurable effect on these hematologic indices. The increases in RET, MCV, and MCH, observed randomly among the treatment groups, may be considered a normal response to the blood loss incurred through the repeated sampling conducted during this study.

Significant increases in total protein (TP) were observed for animals treated with HSD or D70. Increases in TP and concurrent decreases in ALB and A-G, provide indirect evidence of increasing globulin levels for HSD- and D70-treated animals. This is an interesting observation because the absence of this response in HS- and RL-treated animals would suggest that the response is associated with the repeated administration of dextran. This may not be a valid conclusion, however, because an increase in globulin levels following dextran administration was not observed in earlier

toxicity studies with Dextran 70® (G. Jonsson, Pharmacia, personal communication).

The mild increases in AST and ALK, the absence of clinical signs referable to liver disease, and the lack of hepatic lesions on histopathological examination, suggest that the enzyme elevations may have been due to enzyme induction associated with the metabolism of dextran rather than hepatocellular damage.

Other alterations in serum chemistry and hematology measurements, although statistically significant among groups, were inconsistent, and did not vary from generally accepted normal limits.

Gross and microscopic lesions observed at necropsy and subsequent histopathologic examination of tissues, were considered to be either incidental findings commonly observed in rabbits, or the result of chronic catheterization and restraint. These findings suggest that if any morphological changes occurred due to the administration of the volume expanders, they were transient.

#### CONCLUSION

The toxicity associated with the repeated daily administration of HSD is consistent with plasma expansion and resultant hemodilution induced by persistent serum dextran levels, the hepatic metabolism of dextran, and the administration of large volumes of hypertonic saline. Since the proposed therapeutic dose of HSD is a single dose of only 4 ml/kg, these findings indicate that there will be minimal adverse effects associated with the therapeutic administration of HSD.

**TABLE 2**  
**Clinical Observations Summary<sup>a</sup>**

Group/ (ml/kg/day)	RL/16		HSD/8		HSD/12		HSD/16		HS/8	
Sex	M	F	M	F	M	F	M	F	M	F
<u>Observation</u>										
<b>BEHAVIORAL</b>										
DISORIENTED	5	5	5	5	5	5	4	5	5	5
INACTIVE	5	4	5	5	5	4	5	5	5	4
UNCOORDINATED	5	2	5	3	5	5	5	1	5	4
TREMORS	4	3	5	1	3	4	5	5	5	5
HYPERACTIVE	1	0	3	1	4	1	1	1	1	3
APPREHENSIVE	0	1	0	3	0	3	0	2	0	3
STARTLES	1	2	1	2	0	0	3	1	3	2
AGGRESSIVE	0	3	2	1	1	0	0	1	0	1
DEPRESSED	0	0	0	0	0	2	1	0	0	1
CHEWING	0	0	0	0	1	0	0	0	1	0
IRRITABLE	0	1	0	0	0	0	0	0	0	0
SWAYS HEAD	0	0	0	1	0	0	0	0	0	0
<b>GENERAL</b>										
HUNCHED POSTURE	5	5	5	5	5	5	5	5	5	4
WIDE STANCE	3	3	3	3	2	2	4	2	4	2
DECR. APPETITE	1	0	1	0	1	1	1	1	2	0
LAMENESS	1	0	2	0	1	0	2	0	3	1
NASAL MAT/STAIN	0	2	0	2	0	1	0	0	0	1
SWOLLEN TESTES	0	0	2	0	0	0	1	0	0	0
DISCOLOR. TESTES	1	0	1	0	0	0	1	0	0	0
VENTRAL EDEMA	0	0	1	0	0	0	1	0	0	0
BLOODY/DISCOLOR URINE	0	0	0	0	0	1	0	0	0	0
<b>RESPIRATORY</b>										
INC. RESP. RATE	3	5	4	5	2	4	5	3	3	5
INC. RESP. DEPTH	1	2	3	3	3	2	4	0	2	3
CONGESTED	1	0	2	0	0	0	1	0	0	0
RASPY	1	1	0	0	0	0	0	0	0	0
LABORED BREATHING	0	1	0	0	0	0	0	0	0	0

<sup>a</sup> Data presented as number of animals exhibiting the sign with 5 animals of each sex per group.



TABLE 2 (cont.)

Clinical Observations Summary<sup>a</sup>

Group/(ml/kg/day)	HS/12		HS/16		D70/8		D70/12		D70/16	
Sex	M	F	M	F	M	F	M	F	M	F
Observation										
BEHAVIORAL										
DISORIENTED	5	5	5	5	5	5	5	5	5	5
INACTIVE	5	5	5	3	5	5	4	5	5	4
UNCOORDINATED	4	5	5	2	5	1	5	3	5	4
TREMORS	4	4	5	4	4	3	3	4	2	3
HYPERACTIVE	3	4	4	1	2	0	3	1	1	1
APPREHENSIVE	0	4	0	2	0	5	0	5	0	3
STARTLES	1	2	0	1	2	0	2	1	3	0
AGGRESSIVE	1	1	0	4	0	0	1	2	0	1
DEPRESSED	0	0	1	0	1	0	2	0	2	0
CHEWING	0	1	0	0	0	0	0	0	0	0
IRRITABLE	0	0	0	0	0	0	0	0	0	1
SWAYS HEAD	0	0	0	0	0	0	0	0	1	0
GENERAL										
HUNCHED POSTURE	5	5	5	5	5	5	5	5	5	5
WIDE STANCE	4	2	4	2	2	1	4	1	3	2
DECR. APPETITE	3	0	1	1	1	0	1	1	3	0
LAMENESS	1	0	2	0	2	0	0	0	0	0
NASAL MAT/STAIN	0	1	0	2	0	2	0	2	0	2
SWOLLEN TESTES	0	0	1	0	0	0	2	0	4	0
DISCOLOR. TESTES	0	0	0	0	0	0	3	0	4	0
VENTRAL EDEMA	0	0	1	0	0	0	1	0	1	0
BLOODY/DISCOLOR	0	0	0	1	0	0	0	0	0	0
URINE										
RESPIRATORY										
INC. RESP. RATE	2	5	2	3	3	5	5	5	3	4
INC. RESP. DEPTH	4	3	2	2	2	4	2	2	1	1
CONGESTED	1	0	0	0	0	0	1	0	1	0
RASPY	1	0	0	2	0	0	1	0	1	0
LABORED BREATHING	0	0	0	0	0	0	0	0	0	0

<sup>a</sup> Data presented as number of animals exhibiting the sign with 5 animals of each sex per group.

TABLE 2 (cont.)

Clinical Observations Summary<sup>a</sup>

Group/(ml/kg/day)	RL/16		HSD/8		HSD/12		HSD/16		HS/8	
Sex	M	F	M	F	M	F	M	F	M	F
<u>Observation</u>										
GASTROINTESTINAL										
LOOSE STOOL	1	0	0	1	0	0	0	0	0	0
DIARRHEA	0	0	0	0	0	1	0	0	1	1
MUCUS IN STOOL	0	0	0	0	0	0	0	0	1	0
OCULAR										
PUPILS DILATED	3	4	3	0	2	3	2	3	2	2
REDNESS	1	1	1	1	1	0	2	0	2	0
DISCHARGE	4	0	0	0	0	0	0	0	0	0
LACRIMATION	0	0	0	1	0	0	0	1	0	0
SQUINTING	1	0	1	0	0	0	0	0	0	0
EXOPHTHALMUS	0	1	1	0	0	0	1	0	0	0
THIRD EYELID EXTENDED	0	0	1	0	0	0	0	0	0	0
SKIN										
ROUGH COAT	3	0	1	0	1	0	4	0	1	0
SORE	0	0	0	0	0	0	0	0	0	0
REDNESS	0	0	0	1	0	0	0	0	0	0
ABSCCESS	0	0	0	1	0	0	0	0	0	0
BRUISE	0	0	0	0	0	0	0	0	0	0
SWELLING MOUTH	0	0	0	0	0	0	1	0	0	0
MORTALITIES	0	0	0	0	0	0	1	0	0	0

<sup>a</sup> Data presented as number of animals exhibiting the sign with 5 animals of each sex per group.

TABLE 2 (cont.)  
Clinical Observations Summary<sup>a</sup>

Group/ (ml/kg/day)	HS/12		HS/16		D70/8		D70/12		D70/16	
Sex	M	F	M	F	M	F	M	F	M	F
Observation										
GASTROINTESTINAL										
LOOSE STOOL	1	1	2	1	2	1	0	0	3	1
DIARRHEA	0	0	0	0	0	0	0	0	1	0
MUCUS IN STOOL	0	0	0	1	0	0	0	0	0	0
OCULAR										
PUPILS DILATED	2	1	2	2	1	0	2	2	1	4
REDNESS	0	0	2	0	3	0	1	1	4	0
DISCHARGE	0	0	1	0	2	0	0	0	1	0
LACRIMATION	1	0	0	0	0	0	1	0	0	1
SQUINTING	0	0	0	0	2	0	1	0	0	0
EXOPHTHALMUS	0	0	1	0	0	0	0	0	0	0
THIRD EYELID EXTENDED	0	0	0	0	0	0	0	0	0	0
SKIN										
ROUGH COAT	3	0	1	0	0	0	1	0	2	0
SORE	0	0	0	1	0	2	1	0	0	0
REDNESS	0	0	0	0	0	0	0	0	0	0
ABSCCESS	0	0	0	0	0	0	0	0	0	0
BRUISE	0	1	0	0	0	0	0	0	0	0
SWELLING MOUTH	0	0	0	0	0	0	0	0	0	0
MORTALITIES	0	0	0	1	0	0	2	0	0	0

<sup>a</sup> Data presented as number of animals exhibiting the sign with 5 animals of each sex per group.

**TABLE 3**  
**Group Mean Body Weight (grams)<sup>a</sup>**

Group/dose (ml/kg/day)	WK-5	WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Males								
RL / 16	3088 ±388 (3)	3281 114 (5)	3385 115 (5)	3472 120 (5)	3639 131 (5)	3605 102 (5)	3380 58 (5)	3321 89 (5)
HSD / 8	3280 ±94 (3)	3414 90 (5)	3475 75 (5)	3599 87 (5)	3750 90 (5)	3782 72 (5)	3722 72 (5)	3567 <sup>b</sup> 129 (5)
HSD / 12	2896  (1)	3189 ±72 (4)	3242 71 (4)	3292 88 (4)	3547 65 (4)	3517 85 (5)	3439 135 (5)	3429 132 (5)
HSD / 16	3182 ±63 (4)	3210 98 (5)	3294 107 (5)	3411 133 (5)	3530 129 (5)	3572 160 (5)	3413 149 (5)	3276 204 (4)
HS / 8	3150 ±168 (2)	3215 68 (4)	3311 24 (4)	3398 78 (4)	3556 64 (4)	3402 146 (5)	3184 <sup>b</sup> 137 (5)	3057 <sup>b</sup> 204 (5)

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parenthesis.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 3 (cont.)

Group Mean Body Weight (grams)<sup>a</sup>

Group/dose (ml/kg/day)	WK-5	WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Males								
HS / 12	3374	3361	3403	3581	3692	3481	3482	3256
		±118	128	87	123	181	236	201
	(1)	(3)	(3)	(3)	(3)	(5)	(5)	(5)
HS / 16	3478	3323	3494	3585	3758	3586	3437	3353 <sup>b</sup>
	±1	94	79	69	56	208	224	238
	(2)	(4)	(4)	(4)	(4)	(5)	(5)	(5)
D70 / 8	3111	3360	3363	3450	3532	3440	3420	3331
	±7	64	53	31	51	127	82	167
	(2)	(4)	(4)	(4)	(4)	(5)	(5)	(5)
D70 / 12	3327	3350	3383	3445	3611	3533	3580	3465
	±194	77	92	126	117	198	82	100
	(2)	(4)	(4)	(4)	(4)	(5)	(4)	(3)
D70 / 16	3292	3302	3374	3477	3659	3670	3489	3506
	±166	133	145	146	154	206	229	236
	(2)	(4)	(4)	(4)	(4)	(5)	(5)	(5)

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parenthesis.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 3 (cont.)

Group Mean Body Weight (grams)<sup>a</sup>

Group/dose (ml/kg/day)	WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Females							
RL / 16	2932 ±80 (3)	3027 65 (5)	3148 50 (5)	3280 43 (5)	3241 43 (5)	3382 110 (5)	3421 145 (5)
HSD / 8	2965 ±52 (2)	2959 75 (5)	3078 69 (5)	3163 87 (5)	3144 89 (5)	3252 70 (5)	3393 <sup>b</sup> 76 (5)
HSD / 12	3155 ±120 (2)	2966 123 (5)	3057 131 (5)	3102 115 (4)	3133 143 (5)	3070 157 (5)	3070 143 (5)
HSD / 16	2841 ±114 (3)	2858 106 (5)	3046 93 (5)	3146 82 (5)	3165 98 (5)	3201 126 (5)	3180 183 (5)
HS / 8	3033 ±114 (3)	3008 93 (5)	3042 92 (5)	3153 108 (5)	3116 78 (5)	3204 78 (5)	3252 70 (5)

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parenthesis.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 3 (cont.)

Group Mean Body Weight (grams)<sup>a</sup>

Group/dose (ml/kg/day)	WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Females							
HS / 12	2998 ±153 (2)	2987 104 (5)	3091 112 (5)	3088 61 (4)	3237 91 (5)	3257 95 (5)	3318 118 (5)
HS / 16	3205 ±54 (2)	3033 95 (5)	3137 119 (5)	3304 108 (5)	3289 108 (5)	3160 113 (4)	3249 189 (4)
D70 / 8	2891 ±124 (3)	3087 101 (5)	3226 76 (5)	3368 91 (4)	3408 59 (5)	3518 72 (5)	3569 93 (5)
D70 / 12	2874 ±171 (3)	2895 99 (5)	3024 111 (5)	2980 66 (3)	3150 89 (5)	3190 76 (5)	3077 94 (5)
D70 / 16	2960 ±176 (2)	2943 78 (5)	3074 75 (5)	3167 66 (5)	3133 53 (5)	3292 69 (5)	3283 110 (5)

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parenthesis.





TABLE 4 (cont.)  
Group Mean Water Consumption (ml/day)<sup>a</sup>

Group/Dose (ml/kg/day)	WK-3	WK-2	WK-1	0	Study Day							
					1	2	3	4	5	6	7	14
Males												
HSD / 8	309.3	342.2	286.6	345.8	394.8	362.8	393.5 <sup>c</sup>	388.2	356.4	285.2	285.8	224.0
	±66.5 (4)	25.1 (5)	59.7 (5)	45.1 (5)	42.9 (4)	33.4 (5)	31.8 (4)	18.3 (5)	11.9 (5)	46.7 (5)	20.3 (5)	33.8 (5)
HSD / 12	270.7	311.0	313.6	260.6	358.0	339.6	381.0 <sup>c</sup>	318.5	313.8	352.4	314.6	326.2
	±37.6 (3)	50.2 (3)	41.0 (5)	47.5 (5)	61.1 (4)	48.9 (5)	55.8 (5)	41.5 (4)	35.3 (5)	48.9 (5)	40.8 (5)	43.1 (5)
HSD / 16	269.5	265.2	223.8	308.0	484.0	413.8	458.8 <sup>c</sup>	400.8	299.6	329.8	345.8	355.3
	±35.3 (4)	29.1 (5)	31.1 (5)	61.8 (5)	111.6 (5)	83.8 (5)	87.6 (5)	88.1 (5)	52.6 (5)	45.4 (5)	37.0 (5)	60.3 (4)

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 4 (cont.)  
Group Mean Water Consumption (ml/day)<sup>a</sup>

Group/Dose (ml/kg/day)	Study Day												
	WK-1	0	1	2	3	4	5	6	7	14			
Males													
HS / 8	330.3 ±24.4 (3)	338.3 (4)	333.4 55.4 (5)	360.2 58.6 (5)	360.2 50.0 (5)	388.2 <sup>c</sup> 48.8 (5)	437.8 <sup>c</sup> 71.6 (5)	418.0 59.2 (5)	379.0 <sup>c</sup> 45.5 (5)	263.8 45.2 (5)	340.6 28.6 (5)	214.8 49.7 (5)	
	336.0 — (1)	360.7 ±41.0 (3)	308.0 52.9 (4)	301.4 47.2 (5)	405.6 25.4 (5)	515.8 <sup>c</sup> 70.3 (5)	405.8 <sup>c</sup> 74.9 (5)	408.8 53.7 (5)	397.4 <sup>c</sup> 20.5 (5)	361.2 29.8 (5)	370.6 35.9 (5)	263.2 46.7 (5)	
HS / 16	419.0 ±7.0 (3)	379.5 21.0 (4)	285.8 44.3 (5)	223.8 34.6 (5)	502.4 36.2 (5)	587.0 <sup>c</sup> 79.1 (5)	475.2 <sup>c</sup> 134.3 (5)	482.0 110.5 (5)	478.2 <sup>c</sup> 97.9 (5)	412.4 56.5 (5)	471.2 93.3 (5)	374.0 41.1 (5)	

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 4 (cont.)  
Group Mean Water Consumption (ml/day)<sup>a</sup>

Group/Dose (ml/kg/day)	WK-3	WK-2	WK-1	0	Study Day							14
					1	2	3	4	5	6	7	
					Males							
D70 / 8	236.7	264.7	196.2	301.8	335.0	293.0 <sup>c</sup>	201.0 <sup>de</sup>	189.2	184.8 <sup>e</sup>	197.2	199.2	110.6 <sup>b</sup>
	±8.1 (3)	26.3 (3)	28.3 (5)	45.8 (5)	53.8 (5)	54.2 (5)	18.4 (5)	19.5 (5)	20.9 (5)	14.9 (5)	26.4 (5)	28.4 (5)
D70 / 12	270.0	335.5	320.6	261.4	320.6	304.4 <sup>c</sup>	236.0 <sup>de</sup>	208.4	152.3 <sup>c</sup>	285.2	226.0	188.7
	±70.1 (3)	52.1 (4)	17.1 (5)	48.1 (5)	48.2 (5)	32.7 (5)	83.4 (3)	55.4 (5)	52.9 (4)	64.3 (5)	19.0 (5)	62.6 (3)
D70 / 16	317.7	317.5	345.2	364.8	287.8	258.4 <sup>c</sup>	151.0 <sup>bde</sup>	186.6 <sup>b</sup>	152.0 <sup>bce</sup>	176.6 <sup>b</sup>	159.4 <sup>b</sup>	162.0 <sup>b</sup>
	±50.3 (3)	24.4 (4)	39.7 (5)	41.2 (5)	21.1 (5)	41.1 (5)	18.4 (5)	37.6 (5)	24.3 (5)	29.2 (5)	30.1 (5)	39.4 (5)

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 4 (cont.)

Group Mean Water Consumption (ml/day)<sup>a</sup>

Group/Dose (ml/kg/day)		Study Day											
		WK-1	WK-2	WK-3	0	1	2	3	4	5	6	7	14
Females													
RRL / 16	195.0 ±5.9 (3)	226.8 9.5 (5)	214.8 38.8 (4)	209.6 16.9 (5)	183.2 19.3 (5)	177.2 45.0 (5)	185.2 23.8 (5)	185.0 14.0 (5)	233.6 39.1 (5)	187.4 28.6 (5)	193.8 14.2 (5)	136.2 23.6 (5)	
HSD / 8	184.5 ±11.5 (2)	242.2 12.6 (5)	264.8 45.4 (5)	276.6 48.5 (5)	336.2 28.8 (5)	337.8 46.6 (5)	311.0 48.1 (5)	277.4 46.0 (5)	260.6 58.9 (5)	269.2 52.4 (5)	249.4 35.0 (5)	257.6 61.7 (5)	
HSD / 12	310.5 ±23.5 (2)	274.6 27.1 (5)	253.6 14.1 (5)	223.2 54.8 (5)	317.0 83.2 (5)	332.8 48.4 (5)	336.6 52.7 (5)	304.6 96.5 (5)	276.0 45.0 (5)	224.6 33.8 (5)	261.4 21.7 (5)	209.4 47.8 (5)	
HSD / 16	195.7 ±18.8 (3)	224.4 5.6 (5)	226.4 8.0 (5)	235.8 27.4 (5)	317.0 38.6 (5)	305.0 45.5 (5)	358.8 25.8 (5)	309.0 37.0 (5)	326.6 41.3 (5)	305.0 39.8 (5)	321.0 40.2 (5)	309.8 46.9 (5)	
HS / 8	213.0 ±7.0 (2)	205.2 7.6 (5)	254.3 36.6 (4)	310.2 37.9 (5)	377.4 31.0 (5)	362.2 46.2 (5)	367.4 29.4 (5)	330.2 17.2 (5)	401.0 55.3 (5)	338.6 47.6 (5)	329.4 53.3 (5)	272.6 <sup>b</sup> 55.4 (5)	

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

TABLE 4 (cont.)

Group Mean Water Consumption (ml/day)<sup>a</sup>

Group/Dose (ml/kg/day)		Study Day										
		0	1	2	3	4	5	6	7	14		
Females												
HS / 12	251.0	258.4	244.0	221.8	333.6	372.8	306.2	299.8	314.8	359.4	378.0	368.0 <sup>b</sup>
	±48.0 (2)	21.5 (5)	15.0 (5)	25.6 (5)	72.4 (5)	58.0 (5)	51.0 (5)	60.2 (5)	40.1 (5)	31.3 (5)	20.6 (5)	44.8 (5)
HS / 16	341.0	285.0	265.0	266.6	429.0	328.6	374.8	387.3	322.5	367.5	357.0	373.0 <sup>b</sup>
	— (1)	±45.8 (5)	38.4 (5)	13.9 (5)	19.7 (5)	82.0 (5)	28.0 (4)	9.5 (4)	27.5 (4)	26.0 (4)	23.6 (4)	52.7 (4)
D70 / 9	323.2	302.6	285.2	342.0	277.4	258.4	250.0	201.6	200.0	229.2	222.0	251.2 <sup>c</sup>
	±18.4 (3)	58.2 (5)	36.3 (5)	29.2 (5)	56.6 (5)	16.5 (5)	24.5 (5)	42.4 (5)	48.6 (5)	43.0 (5)	16.6 (5)	41.5 (5)
D70 / 12	202.3	225.6	227.2	252.6	253.4	215.0	234.4	175.6	193.2	180.0	168.4	123.8 <sup>c</sup>
	±10.9 (3)	5.9 (5)	10.9 (5)	24.0 (5)	52.3 (5)	39.2 (5)	37.7 (5)	26.7 (5)	50.7 (5)	56.4 (5)	56.0 (5)	54.7 (5)
D70 / 16	207.0	220.2	231.8	259.6	211.4	229.6	190.4	201.4	194.0	207.4	221.0	153.4 <sup>c</sup>
	±26.0 (2)	7.2 (5)	8.8 (5)	40.0 (5)	43.2 (5)	20.6 (5)	26.8 (5)	23.9 (5)	42.1 (5)	34.9 (5)	39.1 (5)	28.4 (5)

<sup>a</sup> Data are presented as mean ± standard error of the mean with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups ( $p = 0.05$  using the Student-Newman-Keuls multiple range test).

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups ( $p = 0.05$  using the Student-Newman-Keuls multiple range test).

**TABLE 5**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		0	Study Day		3	7	14
			1	2			
Alanine Aminotransferase (U/l) - Males							
RL / 16	49.50	54.62	63.38	55.48	54.78	45.14	41.20
	±12.19	10.26	32.49	28.25	45.25	13.46	6.70
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	43.92	43.16	40.86	35.48	36.68	29.84	42.40
	±17.51	11.09	7.85	7.41	7.14	5.42	38.45
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	60.18	55.06	63.50	57.02	47.12	38.85	29.38
	±17.70	21.68	44.11	44.64	29.41	25.15	7.48
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	55.96	50.98	39.76	42.14	45.56	48.66	47.33
	±37.05	15.77	25.34	12.34	11.37	16.14	26.37
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	51.06	59.60	62.86	57.94	54.32	43.40	48.66
	±18.26	20.78	21.16	20.95	16.71	8.00	21.11
	(5)	(5)	(5)	(5)	(3)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Alanine Aminotransferase (U/l) - Males							
HS / 12	39.36	45.04	44.94	34.70	35.86	26.30	24.20
	±9.13	13.90	19.07	9.48	8.92	6.74	10.96
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	50.30	51.50	41.22	39.40	41.18	39.74	40.78
	±7.58	10.72	10.71	9.10	6.49	11.03	21.82
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	38.20	46.38	37.78	34.02	30.56	27.48	24.28
	±17.73	16.76	12.30	12.12	11.24	10.36	10.56
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	50.86	54.12	52.08	43.04	40.32	29.33	22.17
	±13.94	13.47	8.93	5.56	7.21	5.46	6.70
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	34.26	46.88	40.28	43.80	52.72	25.02	31.42
	±13.36	15.52	12.70	33.24	39.94	10.05	26.97
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Aspartate Aminotransferase (U/l) - Males							
RL / 16	20.60	20.38	30.08	23.60	42.36	17.66	27.10
	±10.47	6.25	28.95	22.68	63.66	6.94	20.43
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	18.04	19.32	34.24	31.48	29.02	28.92	44.76
	±8.56	9.63	14.61	14.88	15.31	7.39	32.45
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	18.10	16.88	60.28	49.24	39.40	43.56	40.18
	±6.27	4.01	67.60	42.59	20.06	32.43	11.89
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	20.26	23.96	39.26	44.86	61.60	49.86	42.00
	±8.29	19.92	12.46	13.70	35.72	14.25	16.67
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	15.94	26.72	27.36	18.84	15.72	16.22	23.36
	±4.94	12.10	15.30	5.39	4.44	4.75	9.04
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Aspartate Aminotransferase (U/l) - Males							
HS / 12	17.34	23.50	21.54	20.86	18.82	21.10	24.50
	±6.33	4.90	11.02	13.63	9.16	15.85	15.89
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	21.62	19.80	22.36	19.48	30.72	16.30	21.00
	±8.08	4.63	12.67	10.53	22.89	8.26	6.54
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	17.36	18.54	35.28	36.02	32.56	34.56	37.92
	±9.20	5.94	18.07	17.18	14.90	10.49	11.16
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	18.82	36.78	44.72	38.06	40.66	37.15	36.00
	±5.90	43.22	13.25	5.48	7.03	6.30	2.61
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	17.78	24.20	34.56	56.32	53.14	41.68	49.84
	±4.68	14.70	9.56	43.28	37.60	13.75	17.80
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Alkaline Phosphatase (U/l) - Males							
RL / 16	102.30	61.20	60.00	54.92	56.88	45.66	54.08
	±33.72	13.52	10.34	20.42	12.94	14.50	20.08
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	70.48	50.42	54.42	58.72 <sup>d</sup>	51.56	54.10 <sup>d</sup>	49.38 <sup>d</sup>
	±37.15	13.01	30.77	11.52	13.90	4.92	17.79
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	115.08	70.92	89.36 <sup>b</sup>	89.30 <sup>bd</sup>	85.48 <sup>b</sup>	69.68 <sup>d</sup>	71.44 <sup>d</sup>
	±46.18	31.82	25.15	24.91	30.21	29.07	28.07
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	93.60	47.48	52.34	48.84 <sup>d</sup>	52.30	37.28 <sup>d</sup>	34.35 <sup>d</sup>
	±38.03	19.69	11.52	12.37	9.41	14.18	8.39
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	80.14	55.06	47.34 <sup>c</sup>	44.96 <sup>ce</sup>	44.96 <sup>c</sup>	39.58 <sup>ce</sup>	32.58 <sup>ce</sup>
	±8.80	13.00	6.43	10.83	8.17	25.60	13.97
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Alkaline Phosphatase (U/l) - Male							
HS / 12	126.42 ±66.59 (5)	75.08 40.37 (5)	59.98 <sup>a</sup> 31.06 (5)	55.88 <sup>ca</sup> 35.58 (5)	60.36 <sup>a</sup> 32.57 (5)	36.14 <sup>ca</sup> 22.07 (5)	39.94 <sup>ca</sup> 22.18 (5)
HS / 16	113.60 ±68.07 (5)	88.64 84.94 (5)	75.08 <sup>a</sup> 78.02 (5)	72.66 <sup>ca</sup> 70.54 (5)	67.44 <sup>a</sup> 59.48 (5)	45.84 <sup>ca</sup> 22.37 (5)	54.46 <sup>ca</sup> 50.16 (5)
D70 / 8	117.50 ±24.27 (5)	76.06 18.43 (5)	89.82 <sup>d</sup> 17.88 (5)	101.98 <sup>bd</sup> 21.88 (5)	98.22 <sup>bd</sup> 23.40 (5)	77.34 <sup>d</sup> 21.19 (5)	62.36 <sup>d</sup> 25.41 (5)
D70 / 12	93.56 ±21.61 (5)	61.66 25.39 (5)	77.80 <sup>d</sup> 25.97 (5)	72.48 <sup>d</sup> 21.52 (5)	70.58 <sup>d</sup> 15.54 (5)	60.60 <sup>d</sup> 7.97 (4)	46.93 <sup>d</sup> 21.03 (3)
D70 / 16	87.10 ±16.45 (5)	63.66 16.69 (5)	77.92 <sup>d</sup> 20.89 (5)	79.60 <sup>d</sup> 18.62 (5)	74.00 <sup>d</sup> 26.53 (5)	55.28 <sup>d</sup> 12.42 (5)	56.72 <sup>d</sup> 19.83 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Lactate Dehydrogenase (U/l) - Males							
RL / 16	141.18 ±97.30 (5)	138.30 119.14 (5)	150.02 99.47 (5)	112.80 60.51 (5)	139.86 169.81 (5)	153.86 76.56 (5)	157.06 54.28 (5)
HSD / 8	111.68 ±83.36 (5)	145.18 64.53 (5)	90.08 18.70 (5)	122.62 81.60 (5)	85.72 56.18 (5)	92.04 63.56 (5)	91.82 <sup>c</sup> 48.28 (5)
HSD / 12	137.32 ±93.03 (5)	143.50 126.90 (5)	125.68 98.49 (5)	112.72 72.22 (5)	90.50 63.68 (5)	112.62 89.50 (5)	105.34 <sup>c</sup> 79.21 (5)
HSD / 16	150.26 ±74.13 (5)	122.86 83.80 (5)	101.22 115.37 (5)	99.84 74.91 (5)	68.44 52.03 (5)	48.64 32.26 (5)	59.73 <sup>c</sup> 29.48 (4)
HS / 8	119.80 ±34.94 (5)	178.92 138.79 (5)	174.12 135.04 (5)	135.66 35.66 (5)	94.80 43.28 (5)	92.68 24.48 (5)	159.92 <sup>bd</sup> 30.99 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Lactate Dehydrogenase (U/l) - Males							
HS / 12	127.88	125.12	97.10	135.44	89.72	178.82	311.64 <sup>bd</sup>
	±72.97	84.92	67.46	44.17	51.17	162.14	192.59
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	255.46	191.66	154.92	203.12	228.12	206.18	250.52 <sup>bd</sup>
	±138.07	127.06	100.27	105.43	134.73	164.07	170.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	130.20	115.40	100.90	142.76	91.04	102.86	177.94 <sup>c</sup>
	±77.05	106.48	58.65	95.26	47.41	60.54	175.68
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	154.20	172.78	191.36	105.88	75.48	71.78	82.60 <sup>c</sup>
	±146.77	193.15	75.02	80.23	40.24	15.31	54.27
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	199.60	160.88	115.56	132.32	153.98	131.12	132.46 <sup>c</sup>
	±104.23	98.63	91.62	103.94	86.07	98.02	98.58
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Gamma Glutamyl Transpeptidase (U/l) - Males							
RL / 16	6.24	5.26	5.20	4.96	5.72	5.44	4.22
	±2.31	2.02	1.85	2.07	2.53	0.99	1.16
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	6.06	4.82	4.76	5.48	5.36	5.70	3.66
	±2.55	2.86	2.08	1.31	1.20	0.89	1.07
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	7.06	6.22	5.30	5.20	5.98	5.40	4.25
	±1.76	1.16	1.98	2.27	1.51	0.64	2.12
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HSD / 16	11.08	6.92	7.10	6.50	9.02	6.62	5.58
	±7.64	2.81	2.59	3.67	0.97	1.23	0.96
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	5.82	5.46	5.34	5.14	6.58	6.86	6.04
	±1.13	1.37	1.68	1.77	1.37	1.11	1.13
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Gamma Glutamyl Transpeptidase (U/l) - Males							
HS / 12	6.32	5.44	4.26	4.10	6.02	5.02	3.58
	±2.04	1.75	1.81	0.97	2.90	1.50	2.53
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	6.70	5.70	4.56	6.34	6.66	6.22	5.70
	±1.91	1.12	1.94	1.54	1.59	0.51	3.74
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	6.68	5.50	4.40	5.84	6.08	6.26	3.96
	±1.19	0.73	2.33	1.05	1.26	0.88	0.90
	(5)	(4)	(5)	(5)	(5)	(5)	(5)
D70 / 12	7.36	7.56	6.08	6.44	7.22	7.08	6.25
	±1.82	1.66	2.26	1.70	1.04	1.09	1.06
	(5)	(5)	(5)	(5)	(5)	(4)	(2)
D70 / 16	5.22	6.46	5.22	5.30	5.72	5.20	3.96
	±1.56	1.92	2.07	1.39	1.50	0.95	2.25
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		0	Study Day		3	7	14
			1	2			
Creatine Phosphokinase (U/l) - Males							
RL / 16	714.9	2105.7	1828.4	1352.5	8177.4	913.4	1799.2
	±274.2	510.7	551.8	432.2	16630.3	328.8	1263.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	797.2	1607.8	1409.5	1286.4	819.7	571.1	771.0
	±344.7	809.9	1002.2	1113.6	538.3	410.8	250.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	770.9	2765.9	1877.5	1238.9	1263.9	1083.2	956.6
	±472.9	2382.6	1379.4	552.7	1124.8	502.6	361.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	2186.5	4163.7	1428.1	2785.6	3928.5	585.1	424.6
	±3324.0	4717.0	631.0	4501.4	6922.1	140.0	170.1
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	534.7	3759.3	4913.8 <sup>b</sup>	2132.0	1577.0	1872.6	1183.7
	±167.9	2579.3	6784.7	1158.2	1227.8	1665.0	812.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.



TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	1	2	3	7	14	
Creatine Phosphokinase (U/l) - Males							
HS / 12	1492.4 ±1919.6 (5)	6420.6 6239.9 (5)	2627.0 <sup>b</sup> 1639.0 (5)	1203.0 335.5 (5)	1221.1 578.8 (5)	2357.7 3182.5 (5)	1429.2 739.6 (5)
HS / 16	1358.4 ±1385.6 (5)	2924.6 1513.3 (5)	2164.7 <sup>b</sup> 1553.3 (5)	1914.0 1267.1 (5)	2321.6 2038.7 (5)	1253.8 751.3 (5)	1653.2 510.8 (5)
D70 / 8	831.4 ±633.3 (5)	2860.6 2417.7 (5)	1055.7 <sup>c</sup> 509.7 (5)	1028.0 543.2 (5)	730.9 398.8 (5)	613.2 351.3 (5)	1024.0 625.6 (5)
D70 / 12	641.2 ±355.7 (5)	7572.5 9993.7 (5)	2440.9 <sup>c</sup> 966.4 (5)	1512.9 545.6 (5)	788.4 225.7 (5)	703.9 193.1 (4)	810.4 363.1 (3)
D70 / 16	1171.9 ±751.5 (5)	4694.4 5135.2 (5)	1670.6 <sup>c</sup> 1286.5 (5)	2859.7 4764.4 (5)	1013.5 625.3 (5)	814.0 656.3 (5)	718.8 359.3 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day					
	0	1	2	3	7	14
Total Bilirubin (mg/dl) - Males						
RL / 16	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.02	0.00	0.00	0.00	0.00	0.00
	±0.04	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day					
	0	1	2	3	7	14
Total Bilirubin (mg/dl) - Males						
HS / 12	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Cholesterol (mg/dl) - Males							
RL / 16	34.16	31.40	42.94	45.48	43.18	73.30	58.10
	±31.50	7.25	21.75	25.28	23.70	52.19	48.07
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	28.32	28.52	29.66	26.84	27.84	24.14 <sup>c</sup>	25.98 <sup>c</sup>
	±9.32	7.53	9.90	8.12	8.56	4.51	19.52
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	37.56	35.52	32.02	31.68	33.08	27.22 <sup>c</sup>	33.86 <sup>c</sup>
	±6.04	8.91	9.62	7.50	10.57	4.51	21.26
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	56.58	40.92	35.48	32.24	30.22	29.16 <sup>c</sup>	42.90 <sup>c</sup>
	±29.42	7.12	7.60	8.41	4.42	9.12	11.18
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	34.46	33.78	33.12	41.52	44.22	48.28 <sup>bd</sup>	72.96 <sup>bd</sup>
	±6.67	3.97	13.02	4.90	5.54	11.29	39.44
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Cholesterol (mg/dl) - Males							
HS / 12	35.38	31.22	35.46	40.00	45.44	53.40 <sup>bd</sup>	49.80 <sup>bd</sup>
	±9.94	5.13	10.10	17.80	18.17	28.11	28.80
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	27.98	33.80	35.96	35.78	36.46	37.82 <sup>bd</sup>	45.60 <sup>bd</sup>
	±7.56	4.26	4.51	3.75	5.07	21.45	23.24
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	33.72	34.12	30.32	27.64	26.98	25.82 <sup>c</sup>	24.70 <sup>c</sup>
	±9.09	5.73	6.64	3.86	6.18	6.52	12.24
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	34.58	31.90	30.64	29.10	31.50	22.15 <sup>c</sup>	25.50 <sup>c</sup>
	±7.54	7.18	4.45	6.96	14.09	5.58	15.06
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	29.68	30.64	25.84	27.26	30.92	22.36 <sup>c</sup>	33.46 <sup>c</sup>
	±13.86	11.31	7.57	10.53	21.33	8.07	31.99
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		0	Study Day		3	7	14
			1	2			
Triglyceride (mg/dl) - Males							
RL / 16	60.2	66.0	62.2	70.4	79.6	61.6	89.8
	±14.5	42.4	27.9	35.1	57.0	18.1	81.7
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	64.2	67.4	56.4	70.2	56.4	71.4	64.4 <sup>c</sup>
	±25.6	19.9	12.8	35.7	21.3	43.9	46.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	65.8	92.4	62.6	61.4	52.2	68.6	55.8 <sup>c</sup>
	±35.3	48.0	29.6	20.5	15.7	32.4	25.8
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	168.8	66.6	45.4	50.4	64.2	62.8	59.3 <sup>c</sup>
	±244.5	44.6	13.6	17.5	32.8	27.6	36.8
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	82.8	62.4	57.8	67.0	105.0	64.6	154.8 <sup>bd</sup>
	±15.8	30.8	31.4	32.0	58.1	24.5	147.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	Study Day						14
	0	1	2	3	7		
Triglyceride (mg/dl) - Males							
HS / 12	105.8	74.8	62.4	113.6	86.8	88.4	86.2 <sup>bd</sup>
	±54.1	37.1	22.4	58.5	59.2	75.5	19.8
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	69.8	79.4	77.2	80.0	70.4	71.0	80.4 <sup>bd</sup>
	±17.0	43.0	31.7	16.6	7.8	22.8	27.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	83.0	96.8	64.2	59.8	87.6	76.4	47.4 <sup>c</sup>
	±38.4	37.4	11.4	33.0	26.6	13.5	11.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	60.8	61.6	66.0	59.6	58.4	37.3	37.3 <sup>c</sup>
	±24.0	26.1	34.1	23.6	25.7	11.0	12.9
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	64.6	88.6	76.8	68.6	77.0	38.4	52.2 <sup>c</sup>
	±47.6	50.8	61.0	37.7	36.3	5.5	39.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		0	Study Day		3	7	14
			1	2			
Uric Acid (mg/dl) - Males							
RL / 16	0.06	0.00	0.02	0.02	0.04	0.02	0.00
	±0.13	0.00	0.04	0.04	0.05	0.04	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.26	0.00	0.02	0.00	0.02	0.02	0.00
	±0.15	0.00	0.04	0.00	0.04	0.04	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	0.26	0.04	0.14	0.12	0.12	0.00	0.00
	±0.19	0.05	0.26	0.22	0.27	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.14	0.02	0.02	0.00	0.02	0.00	0.00
	±0.17	0.04	0.04	0.00	0.04	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	0.10	0.02	0.04	0.14	0.14	0.00	0.08
	±0.17	0.04	0.05	0.21	0.26	0.00	0.13
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Uric Acid (mg/dl) - Males							
HS / 12	0.14	0.04	0.12	0.12	0.12	0.00	0.06
	±0.17	0.05	0.22	0.27	0.22	0.00	0.09
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.18	0.02	0.12	0.12	0.12	0.02	0.09
	±0.20	0.04	0.27	0.22	0.22	0.04	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	0.18	0.02	0.14	0.02	0.12	0.06	0.02
	±0.16	0.04	0.26	0.04	0.22	0.03	0.04
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.16	0.02	0.12	0.12	0.12	0.00	0.00
	±0.18	0.04	0.22	0.22	0.27	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	0.10	0.02	0.10	0.14	0.14	0.02	0.02
	±0.10	0.04	0.22	0.21	0.21	0.04	0.04
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		0	Study Day		3	7	14
			1	2			
Total Protein (g/dl) - Males							
RL / 16	5.70	5.96	5.84	5.38	5.66	5.88	5.98
	±0.28	0.27	0.30	0.75	0.37	0.18	0.18
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	5.78	6.00	5.66	5.32 <sup>b</sup>	5.46 <sup>h</sup>	6.04	6.26 <sup>h</sup>
	±0.65	0.37	0.52	0.53	0.38	0.32	0.38
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	5.84	5.94	5.90	5.80	6.00	6.44 <sup>b</sup>	6.92 <sup>b</sup>
	±0.19	0.32	0.14	0.38	0.32	0.41	0.61
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	6.10	5.98	6.08	6.08	6.44 <sup>f</sup>	6.56	7.50 <sup>bdg</sup>
	±0.44	0.19	0.31	0.49	0.56	0.51	0.32
	(5)	(4)	(5)	(5)	(5)	(5)	(4)
HS / 8	5.88	5.68	5.64	5.62	5.76	5.80	5.58
	±0.19	0.13	0.38	0.22	0.57	0.35	0.34
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's low-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's middle-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's high-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Total Protein (g/dl) - Males							
HS / 12	5.84 ±0.36 (5)	5.94 0.23 (5)	5.70 0.51 (5)	5.60 0.37 (5)	5.84 0.45 (5)	5.78 0.41 (5)	5.84 0.46 (5)
HS / 16	5.92 ±0.40 (5)	6.02 0.49 (5)	5.68 0.34 (5)	5.82 0.29 (5)	5.82 0.49 (5)	5.94 0.37 (5)	5.94 <sup>ce</sup> 0.76 (5)
D70 / 8	5.82 ±0.19 (5)	5.96 0.21 (5)	5.70 0.19 (5)	5.66 0.26 (5)	5.80 0.14 (5)	6.22 0.30 (5)	6.48 <sup>bh</sup> 0.54 (5)
D70 / 12	5.50 ±0.42 (5)	5.74 0.42 (5)	5.70 0.41 (5)	5.88 0.38 (5)	6.32 0.64 (5)	6.50 0.22 (4)	6.70 <sup>h</sup> 0.53 (3)
D70 / 16	5.94 ±0.66 (5)	6.00 0.19 (5)	6.30 0.26 (5)	6.44 0.51 (5)	6.48 0.51 (5)	6.60 1.28 (5)	7.80 <sup>bdfg</sup> 0.42 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's low-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's middle-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's high-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Albumin (g/dl) - Males							
RL / 16	4.34	3.96	4.04	4.08	3.96	3.78	3.76
	±0.52	0.59	0.45	0.41	0.39	0.23	0.36
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / S	4.28	4.30	3.84	3.76 <sup>d</sup>	3.74 <sup>dq</sup>	3.32 <sup>bdq</sup>	3.08 <sup>bd</sup>
	±0.54	0.34	0.29	0.31	0.38	0.24	0.35
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	4.28	4.12	3.90	3.70 <sup>d</sup>	3.52 <sup>bd</sup>	2.96 <sup>bd</sup>	3.08 <sup>bd</sup>
	±0.31	0.50	0.29	0.37	0.28	0.33	0.28
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	4.48	3.74	3.56	3.40 <sup>d</sup>	3.36 <sup>df</sup>	2.68 <sup>bdf</sup>	2.85 <sup>bd</sup>
	±0.29	0.26	0.18	0.19	0.19	0.39	0.25
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	4.28	3.86	3.50	4.14 <sup>ce</sup>	4.34 <sup>ceg</sup>	3.80 <sup>ceg</sup>	3.38 <sup>ce</sup>
	±0.19	0.19	1.07	0.26	0.44	0.46	0.33
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Albumin (g/dl) - Males							
HS / 12	4.38 ±0.22 (5)	4.14 0.27 (5)	3.76 0.30 (5)	3.88 <sup>ce</sup> 0.22 (5)	4.12 <sup>ce</sup> 0.51 (5)	3.82 <sup>ce</sup> 0.32 (5)	3.94 <sup>ce</sup> 0.29 (5)
HS / 16	4.68 ±0.36 (5)	4.22 0.40 (5)	4.08 0.24 (5)	4.18 <sup>ce</sup> 0.40 (5)	3.78 <sup>cef</sup> 0.49 (5)	3.82 <sup>cef</sup> 0.29 (5)	3.74 <sup>ce</sup> 0.69 (5)
D70 / 8	4.40 ±0.27 (5)	3.98 0.31 (5)	3.72 0.23 (5)	3.88 <sup>d</sup> 0.18 (5)	3.86 <sup>dg</sup> 0.19 (5)	3.50 <sup>bdg</sup> 0.23 (5)	3.22 <sup>bd</sup> 0.13 (5)
D70 / 12	4.30 ±0.43 (5)	3.88 0.19 (5)	3.74 0.15 (5)	3.60 <sup>d</sup> 0.24 (5)	3.64 <sup>d</sup> 0.33 (5)	3.05 <sup>bd</sup> 0.10 (4)	2.60 <sup>bd</sup> 0.26 (3)
D70 / 16	4.42 ±0.37 (5)	4.24 0.53 (5)	3.82 0.45 (5)	3.62 <sup>d</sup> 0.31 (5)	3.44 <sup>bdg</sup> 0.49 (5)	3.00 <sup>bdg</sup> 0.37 (5)	2.84 <sup>bd</sup> 0.46 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Albumin/Globulin Ratio - Males							
RL / 16	3.44 ±1.46 (5)	2.14 0.78 (5)	2.40 0.84 (5)	3.42 0.94 (5)	2.68 0.99 (5)	1.82 0.36 (5)	1.78 0.54 (5)
HSD / 8	2.96 ±0.63 (5)	2.78 1.14 (5)	2.36 1.02 (5)	2.48 <sup>dgh</sup> 0.45 (5)	2.22 <sup>dgh</sup> 0.52 (5)	1.22 <sup>bd</sup> 0.16 (5)	0.98 <sup>bd</sup> 0.18 (5)
HSD / 12	2.78 ±0.55 (5)	2.42 0.77 (5)	2.00 0.35 (5)	1.78 <sup>bd<sup>f</sup></sup> 0.35 (5)	1.40 <sup>bd<sup>f</sup></sup> 0.20 (5)	0.88 <sup>bd</sup> 0.19 (5)	0.82 <sup>bd</sup> 0.08 (5)
HSD / 16	2.86 ±0.67 (5)	1.73 0.37 (4)	1.46 0.25 (5)	1.32 <sup>d<sup>f</sup></sup> 0.30 (5)	1.12 <sup>d<sup>f</sup></sup> 0.22 (5)	0.70 <sup>d</sup> 0.10 (5)	0.60 <sup>d</sup> 0.08 (4)
HS / 8	2.74 ±0.45 (5)	2.22 0.53 (5)	1.96 0.93 (5)	2.98 <sup>cegh</sup> 0.87 (5)	3.26 <sup>cegh</sup> 0.99 (5)	1.94 <sup>ce</sup> 0.50 (5)	1.64 <sup>ce</sup> 0.45 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	Study Day					
		1	2	3	7	14	
Albumin/Globulin Ratio - Males							
HS / 12	3.20 ±0.84 (5)	2.38 0.54 (5)	1.94 0.44 (5)	2.40 <sup>ce,f</sup> 0.71 (5)	2.72 <sup>ce,f</sup> 1.15 (5)	2.02 <sup>ce</sup> 0.45 (5)	2.16 <sup>ce</sup> 0.39 (5)
HS / 16	3.90 ±1.01 (5)	2.46 0.80 (5)	3.02 1.75 (5)	2.72 <sup>ce,f</sup> 0.74 (5)	2.26 <sup>ce,f</sup> 1.22 (5)	1.88 <sup>ce</sup> 0.44 (5)	1.88 <sup>ce</sup> 0.83 (5)
D70 / 8	3.22 ±0.48 (5)	2.00 0.41 (5)	1.94 0.55 (5)	2.18 <sup>dgh</sup> 0.34 (5)	2.02 <sup>dgh</sup> 0.35 (5)	1.34 <sup>bd</sup> 0.37 (5)	1.04 <sup>bd</sup> 0.23 (5)
D70 / 12	4.64 ±3.66 (5)	2.12 0.25 (5)	2.02 0.48 (5)	1.58 <sup>df</sup> 0.19 (5)	1.38 <sup>df</sup> 0.19 (5)	0.90 <sup>bd</sup> 0.08 (4)	0.63 <sup>bd</sup> 0.06 (3)
D70 / 16	3.02 ±0.57 (5)	2.52 0.77 (5)	1.72 0.72 (5)	1.42 <sup>bd,f</sup> 0.68 (5)	1.26 <sup>bd,f</sup> 0.61 (5)	1.04 <sup>bd</sup> 0.67 (5)	0.56 <sup>bd</sup> 0.09 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Glucose (mg/dl) - Males							
RL / 16	122.72	108.72	122.08	123.96	126.08	112.64	121.56
	±10.68	16.82	11.39	30.38	11.33	12.26	23.02
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	111.18	117.68	110.54	117.00	128.78	122.78	120.82
	±23.14	9.83	26.02	5.96	9.29	14.58	13.74
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	117.66	111.36	119.44	109.90	120.08	118.54	113.06
	±11.66	21.57	24.56	11.28	9.01	11.65	12.02
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	120.70	119.76	115.92	124.54	130.32	127.56	137.30
	±19.75	7.17	12.87	14.33	10.60	13.29	9.21
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	127.06	125.20	89.34	120.32	129.54	121.58	120.20
	±11.81	11.75	42.80	11.90	22.41	14.79	27.08
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	Study Day					
		1	2	3	7	14	
Glucose (mg/dl) - Males							
HS / 12	161.80	121.84	114.26	109.80	123.54	129.42	107.44
	±61.90	17.94	16.15	15.37	8.88	21.12	10.74
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	122.10	116.90	113.04	114.56	136.84	124.42	123.98
	±10.40	16.22	18.58	20.89	17.91	5.45	25.51
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	112.06	118.66	104.08	120.46	123.50	124.14	123.52
	±17.45	12.08	13.70	15.30	6.09	15.92	21.77
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	125.16	105.82	111.12	118.58	122.90	128.98	125.83
	±26.90	31.75	18.51	24.40	22.05	14.47	6.13
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	164.80	119.94	122.96	112.66	120.48	129.42	121.84
	±88.32	24.20	13.22	11.38	11.67	14.47	21.62
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Blood Urea Nitrogen (mg/dl) - Males							
RL / 16	19.40 ±1.65 (5)	17.90 2.72 (5)	16.56 3.06 (5)	14.88 1.86 (5)	13.06 4.33 (5)	13.96 2.29 (5)	15.34 2.15 (5)
HSD / 8	21.24 ±2.84 (5)	17.04 3.17 (5)	15.48 4.13 (5)	12.36 2.98 (5)	12.04 1.49 (5)	15.26 4.43 (5)	12.86 2.60 (5)
HSD / 12	20.28 ±3.68 (5)	16.44 2.09 (5)	14.70 3.53 (5)	12.60 <sup>b</sup> 2.14 (5)	13.20 <sup>b</sup> 1.52 (5)	14.94 3.89 (5)	17.16 2.90 (5)
HSD / 16	21.30 ±3.37 (5)	15.76 4.08 (5)	15.88 4.14 (5)	12.16 3.86 (5)	14.52 3.85 (5)	15.28 1.82 (5)	15.85 2.69 (4)
HS / 8	21.68 ±2.89 (5)	17.06 4.61 (5)	17.16 6.03 (5)	13.40 2.35 (5)	13.00 2.08 (5)	16.42 2.40 (5)	15.86 3.27 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Blood Urea Nitrogen (mg/dl) - Males							
HS / 12	19.40 ±4.59 (5)	14.58 4.49 (5)	13.20 3.10 (5)	12.72 3.48 (5)	13.26 1.83 (5)	13.78 3.39 (5)	14.80 1.99 (5)
HS / 16	19.52 ±3.08 (5)	15.08 2.67 (5)	14.28 2.39 (5)	12.98 2.92 (5)	14.60 3.02 (5)	17.14 2.81 (5)	14.84 1.99 (5)
D70 / 8	20.72 ±3.25 (5)	16.96 3.19 (5)	16.82 2.64 (5)	14.06 2.79 (5)	14.14 2.44 (5)	14.96 2.72 (5)	14.04 3.57 (5)
D70 / 12	19.50 ±2.08 (5)	16.26 6.47 (5)	14.76 2.82 (5)	12.12 2.73 (5)	13.34 2.22 (5)	14.40 3.42 (4)	12.97 0.49 (3)
D70 / 16	18.54 ±2.21 (5)	14.44 2.21 (5)	13.78 2.73 (5)	12.20 1.14 (5)	12.52 2.24 (5)	11.96 2.89 (5)	15.92 4.53 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Creatinine (mg/dl) - Males							
RL / 16	1.08	1.42	1.58	1.04	1.04	1.16	1.00
	±0.22	0.64	0.56	0.31	0.11	0.32	0.12
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.94	1.00	1.08	1.00	1.14	1.20	0.90
	±0.09	0.07	0.26	0.25	0.29	0.10	0.12
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	1.06	1.48	1.00	1.04	1.10	1.18	1.14
	±0.05	1.53	0.10	0.32	0.16	0.31	0.32
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	1.04	0.96	0.96	0.88	1.12	0.92	1.05
	±0.21	0.11	0.11	0.13	0.16	0.20	0.25
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	1.10	0.98	1.46	1.34	1.38	1.50	1.18
	±0.12	0.16	0.42	0.27	0.36	0.37	0.28
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Creatinine (mg/dl) - Males							
HS / 12	1.00	1.02	1.16	1.12	1.04	1.24	0.96
	±0.20	0.33	0.26	0.39	0.29	0.67	0.11
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	1.00	0.98	1.04	0.96	1.40	1.04	1.00
	±0.10	0.08	0.21	0.22	0.43	0.05	0.16
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	1.04	0.94	1.12	1.06	1.10	1.14	1.06
	±0.17	0.17	0.29	0.42	0.40	0.32	0.27
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	1.12	1.08	0.92	1.08	1.08	1.08	1.07
	±0.13	0.25	0.16	0.16	0.15	0.05	0.06
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	1.06	0.98	1.02	1.14	1.24	0.98	1.06
	±0.22	0.49	0.24	0.30	0.56	0.13	0.19
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Calcium (mg/dl) - Males							
RL / 16	13.96	13.64	13.26	11.32	12.76	13.28	13.84
	±0.91	0.78	0.53	4.94	1.42	0.51	0.56
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	14.15	13.96	13.83	12.56	12.50	12.66 <sup>d</sup>	12.54 <sup>d</sup>
	±0.70	0.57	0.38	0.79	0.66	0.62	0.76
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	14.22	14.08	13.38	12.80	12.82	11.78 <sup>d</sup>	12.70 <sup>d</sup>
	±0.74	0.94	0.75	0.73	0.71	0.75	1.10
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	14.64	13.36	12.96	11.94 <sup>b</sup>	12.42	11.04 <sup>bd</sup>	11.78 <sup>bd</sup>
	±0.38	0.25	0.23	0.17	0.50	0.96	0.71
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	14.62	13.32	12.94	13.00	13.66	13.44 <sup>ce</sup>	12.98 <sup>ce</sup>
	±0.88	0.19	0.63	0.60	0.05	1.00	0.72
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Calcium (mg/dl) - Males							
HS / 12	14.40 ±0.71 (5)	13.62 0.45 (5)	13.14 0.78 (5)	13.10 0.65 (5)	13.58 0.92 (5)	13.06 <sup>ce</sup> 1.37 (5)	13.76 <sup>ce</sup> 0.83 (5)
HS / 16	14.38 ±0.50 (5)	13.90 0.33 (5)	13.06 0.84 (5)	13.32 1.32 (5)	12.70 1.62 (5)	13.70 <sup>ce</sup> 0.76 (5)	13.63 <sup>ce</sup> 0.89 (4)
D70 / 8	14.62 ±0.62 (5)	14.14 0.43 (5)	13.10 <sup>b</sup> 0.72 (5)	13.08 <sup>b</sup> 0.71 (5)	12.98 <sup>b</sup> 0.88 (5)	12.60 <sup>bd</sup> 0.78 (5)	11.78 <sup>bd</sup> 1.07 (5)
D70 / 12	14.46 ±0.55 (5)	13.36 0.21 (5)	13.28 0.31 (5)	12.70 0.37 (5)	12.60 0.19 (5)	11.95 <sup>d</sup> 1.92 (4)	11.50 <sup>d</sup> 1.61 (3)
D70 / 16	13.98 ±1.00 (5)	13.72 0.70 (5)	13.40 0.68 (5)	12.56 <sup>b</sup> 1.06 (5)	12.24 <sup>b</sup> 0.95 (5)	11.02 <sup>bd</sup> 0.90 (5)	11.72 <sup>bd</sup> 0.97 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Phosphorus (mg/dl) - Males							
RL / 16	4.24	3.66	3.90	4.22	4.18	3.92	4.12
	$\pm 0.19$	0.55	0.99	0.63	0.64	0.49	0.80
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	4.12	3.66	3.40	3.86	3.80	4.16	3.34
	$\pm 0.63$	1.30	0.41	0.23	0.14	0.53	0.42
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	4.40	3.66	4.38	4.50	4.44	4.34	4.42
	$\pm 1.41$	1.05	0.73	0.66	0.33	1.35	0.78
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	4.36	3.40	3.36	3.74	4.18	4.20	4.83
	$\pm 1.15$	0.43	0.40	0.58	0.44	0.77	1.08
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	5.04	3.76	3.74	3.90	4.36	4.20	4.22
	$\pm 0.62$	0.85	0.40	0.51	0.40	0.64	0.55
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.



TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Phosphorus (mg/dl) - Males							
HS / 12	4.88	3.76	3.74	4.02	4.36	4.14	4.62
	±0.69	0.66	0.42	0.69	0.54	0.83	0.92
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	4.78	3.66	4.00	4.30	4.28	4.48	4.24
	±1.58	1.22	0.70	0.78	1.13	0.49	0.88
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	4.10	3.48	4.20	4.00	4.52	4.48	4.72
	±0.81	1.21	0.99	0.67	0.54	1.02	0.96
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	4.68	3.42	4.32	3.92	4.32	3.83	3.57
	±0.47	1.00	0.86	0.74	0.61	0.15	0.47
	(5)	(5)	(5)	(5)	(5)	(3)	(3)
D70 / 16	4.78	3.46	3.94	4.50	4.44	4.18	4.04
	±0.37	1.13	0.40	0.48	0.27	0.58	0.78
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Sodium (Meq/l) - Males							
RL / 16	146.80	153.24	151.52	152.98	151.04	150.88	151.72
	±4.87	7.11	1.87	1.97	3.94	1.10	1.76
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	143.78	151.64	145.50	148.22 <sup>c</sup>	150.80	149.30	149.68
	±7.02	0.66	12.61	5.42	2.27	4.08	4.49
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	148.74	149.66	149.18	148.04 <sup>c</sup>	147.82	149.16	146.36
	±1.67	0.82	2.13	1.06	2.41	1.90	1.49
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	148.12	152.24	151.68	150.34 <sup>c</sup>	152.02	148.60	146.00
	±2.91	2.09	0.72	3.77	6.07	2.33	3.88
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	146.82	150.90	149.86	153.82 <sup>b</sup>	154.60	150.06	147.90
	±2.29	1.82	2.81	4.47	5.68	2.68	5.98
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Sodium (Meq/l) - Males							
HS / 12	148.86	150.64	150.62	150.86 <sup>b</sup>	151.36	148.34	147.40
	±2.24	1.46	5.76	2.30	3.11	2.60	3.04
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	149.88	151.98	152.44	153.66 <sup>b</sup>	150.28	150.60	147.36
	±0.91	2.41	2.98	4.55	5.25	2.82	3.49
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	147.36	151.78	149.20	150.24	149.42	148.06	147.90
	±0.92	3.06	4.43	1.77	1.54	2.79	1.78
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	146.14	150.84	150.62	149.32	149.74	149.63	146.27
	±0.97	3.43	2.33	1.69	1.73	2.26	2.23
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	150.58	150.84	151.28	150.90	150.94	145.74	148.64
	±2.45	4.31	0.53	1.51	2.71	4.52	3.67
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Chloride (Meq/l) - Males							
RL / 16	110.8 ±5.9 (5)	114.6 5.3 (5)	113.4 1.7 (5)	110.8 5.7 (5)	113.8 3.1 (5)	113.0 3.3 (5)	116.4 3.0 (5)
HSD / 8	108.0 ±6.7 (5)	114.8 3.4 (5)	111.8 5.7 (5)	113.2 2.5 (5)	114.2 1.5 (5)	114.8 5.2 (5)	114.2 1.3 (5)
HSD / 12	112.6 ±3.4 (5)	112.2 3.1 (5)	115.4 4.8 (5)	112.4 2.9 (5)	113.6 3.2 (5)	114.2 2.4 (5)	111.6 3.9 (5)
HSD / 16	112.6 ±3.6 (5)	112.8 4.0 (5)	114.6 2.9 (5)	115.6 2.3 (5)	115.4 3.4 (5)	113.4 0.5 (5)	112.0 1.8 (4)
HS / 8	110.2 ±7.4 (5)	115.2 3.0 (5)	117.2 2.9 (5)	113.4 2.9 (5)	111.8 3.3 (5)	113.8 5.2 (5)	111.4 5.1 (5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Chloride (Meq/l) - Males							
HS / 12	110.8	113.8	115.8	115.2	114.2	113.0	113.2
	±3.6	1.8	3.6	3.0	2.3	3.9	5.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	113.6	114.8	114.4	116.4	113.2	114.4	112.4
	±3.2	3.9	5.6	1.7	3.6	4.4	5.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	110.0	114.0	114.2	113.0	114.0	116.0	111.0
	±3.2	3.7	5.1	2.6	2.7	3.5	3.7
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	110.6	115.4	115.2	113.0	116.2	115.3	113.0
	±2.4	3.4	2.9	1.2	4.4	0.5	4.0
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	109.2	114.2	115.2	114.8	113.8	114.2	115.8
	±1.9	3.3	1.3	0.8	3.4	3.5	2.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Potassium (Meq/l) - Males							
RL / 16	4.68	3.96	3.96	3.90	4.42	3.70	4.00
	±0.24	0.39	0.18	0.59	0.89	0.27	0.62
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	4.33	4.04	3.80	3.86	4.12	3.94	3.64
	±0.15	0.37	0.28	0.18	0.34	0.38	0.65
	(4)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	4.56	4.04	4.08	4.06	4.10	3.94	4.36
	±0.36	0.55	0.38	0.34	0.44	0.98	0.59
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	4.68	3.88	3.76	3.88	4.18	3.92	4.20
	±0.86	0.18	0.46	0.30	0.27	0.33	0.35
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	4.84	3.86	4.36	3.84	4.20	4.40	3.86
	±0.23	0.32	0.89	0.33	0.69	0.57	0.53
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		0	Study Day 1	2	3	7	14
Potassium (Meq/l) - Males							
HS / 12	4.70	3.96	3.78	3.66	4.24	3.98	4.58
	±1.21	0.09	0.48	0.38	0.53	0.56	0.80
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	4.92	3.88	4.58	3.68	4.20	4.20	3.95
	±0.69	0.37	1.73	0.48	0.97	0.41	0.10
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
D70 / 8	4.64	4.08	3.98	4.16	4.38	4.02	3.78
	±0.38	0.37	0.65	0.53	0.28	0.28	0.34
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	5.04	4.14	4.50	3.92	4.34	4.43	4.03
	±1.13	0.23	0.47	0.48	0.57	0.46	0.60
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	4.42	3.66	3.86	3.68	3.96	3.56	3.42
	±0.72	0.22	0.65	0.58	0.44	0.34	0.56
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	Study Day					
		1	2	3	7	14	
Iron (µg/dl) - Males							
RL / 16	253.86	341.46	308.56	198.76	284.76	327.82	152.34
	±108.36	286.37	205.63	209.56	241.96	221.39	106.65
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	145.52	392.84	207.64	176.90	261.84	298.54	153.00
	±71.61	330.94	99.04	74.90	219.01	163.65	89.13
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	181.26	383.18	312.90	227.72	350.32	296.24	226.54
	±31.80	326.37	228.72	84.22	172.65	176.66	188.91
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	240.96	548.32	426.28	268.74	414.14	167.46	172.35
	±52.28	312.18	260.79	166.01	133.96	67.97	137.03
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	199.68	493.84	444.98	332.76	359.14	596.92	114.32
	±41.60	379.86	420.68	306.76	416.08	425.97	96.37
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Iron (µg/dl) - Males							
HS / 12	218.76 ±30.73 (5)	608.76 424.33 (5)	693.16 347.48 (5)	374.50 353.94 (5)	360.46 338.05 (5)	488.42 414.52 (5)	105.56 55.32 (5)
HS / 16	216.00 ±46.61 (5)	290.22 435.41 (5)	392.88 402.23 (5)	247.66 290.68 (5)	388.74 301.35 (5)	511.22 356.27 (5)	288.04 288.89 (5)
D70 / 8	189.14 ±33.25 (5)	658.42 511.52 (5)	456.82 413.22 (5)	144.06 93.64 (5)	282.08 307.94 (5)	246.04 165.10 (5)	200.86 218.25 (5)
D70 / 12	218.24 ±44.75 (5)	687.24 444.97 (5)	183.18 178.76 (5)	320.74 234.05 (5)	468.10 332.29 (5)	353.03 172.00 (3)	72.87 45.97 (3)
D70 / 16	185.54 ±58.55 (5)	462.86 476.82 (5)	477.14 322.49 (5)	223.26 125.47 (5)	275.38 226.91 (5)	277.70 177.16 (5)	254.84 331.48 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Magnesium (mg/dl) - Males							
RL / 16	1.908	1.680	1.662	1.690	1.616	1.482	1.512
	±0.237	0.153	0.013	0.227	0.259	0.194	0.263
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	1.875	1.766	1.878	1.576	1.606	1.572	1.338 <sup>b</sup>
	±0.157	0.172	0.064	0.301	0.173	0.135	0.089
	(4)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	1.860	1.586	1.780	1.624	1.582	1.614	1.468
	±0.080	0.343	0.243	0.092	0.210	0.213	0.189
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	1.840	1.686	1.588	1.672 <sup>d</sup>	1.676	1.410	1.388
	±0.211	0.204	0.161	0.209	0.238	0.243	0.107
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	2.054	1.794	1.710	1.702 <sup>h</sup>	1.814	1.762	1.608
	±0.093	0.288	0.197	0.334	0.190	0.162	0.117
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's low-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's middle-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's high-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Magnesium (mg/dl) - Males							
HS / 12	2.004	1.762	1.652	1.804 <sup>h</sup>	1.788	1.758	1.824
	±0.110	0.210	0.166	0.126	0.235	0.231	0.142
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	1.930	1.760	1.860	1.424 <sup>ce, g</sup>	1.720	1.712	1.748
	±0.159	0.219	0.233	0.782	0.156	0.089	0.181
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
D70 / 8	1.870	1.790	1.648	1.514	1.588	1.662	1.482
	±0.245	0.185	0.182	0.269	0.172	0.189	0.272
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	1.888	1.654	1.654	1.580	1.610	1.605	1.427
	±0.216	0.149	0.146	0.112	0.122	0.114	0.265
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	1.980	1.786	1.642	1.760 <sup>d</sup>	1.554	1.380 <sup>b</sup>	1.352 <sup>h</sup>
	±0.163	0.279	0.180	0.250	0.147	0.221	0.198
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's low-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's middle-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's high-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	Study Day		3	7	14
		1	2			
Alanine Aminotransferase (U/l) - Females						
RL / 16	40.96	28.26	24.90	25.66	23.40	26.80
	$\pm 19.28$	5.61	3.99	3.26	3.06	8.88
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	40.76	27.88	27.70	24.70	23.86	19.82
	$\pm 10.63$	12.53	12.56	12.42	11.36	7.56
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	29.52	22.34	23.30	21.60	15.96	17.42
	$\pm 11.34$	10.37	11.09	6.94	10.06	4.90
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	45.84	30.46	34.96	31.74	32.12	27.68
	$\pm 18.47$	7.45	6.69	5.69	5.41	3.56
	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	59.12	25.94	25.52	24.58	27.02	24.50
	$\pm 21.32$	5.91	8.55	7.99	10.70	5.31
	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  th standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day 123714					
Alanine Aminotransferase (U/l) - Females							
HS / 12	32.03	28.26	36.00	26.90	26.76	23.30	21.38
	±10.73	10.70	27.09	11.83	8.62	10.01	7.70
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	46.69	30.44	27.96	26.05	24.03	25.65	21.50
	±16.06	12.29	7.64	7.05	3.66	4.97	3.54
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	34.18	28.52	29.36	25.84	20.28	16.34	18.08
	±12.90	13.30	13.85	12.81	7.77	4.13	5.72
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	41.35	28.38	25.44	24.18	22.58	23.78	22.74
	±8.19	12.41	8.09	7.20	7.78	6.02	10.63
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	33.48	26.70	24.68	21.62	20.24	17.08	16.26
	±8.27	13.01	9.81	7.06	6.42	4.21	6.95
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Aspartate Aminotransferase (U/l) - Females							
RL / 16	28.02	10.70	10.04	9.46	10.12	10.58	18.66
	±24.07	3.64	2.94	1.90	2.75	2.48	5.94
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	33.42	13.58	22.90	20.14	20.62	19.16 <sup>c</sup>	19.30 <sup>c</sup>
	±22.18	5.83	18.95	7.33	3.57	4.77	1.94
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	20.96	17.00	21.80	21.64	19.24	21.54 <sup>c</sup>	41.40 <sup>c</sup>
	±8.09	18.21	7.02	2.88	6.31	4.17	32.56
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	19.10	9.28	27.82	28.30	31.74	29.98 <sup>c</sup>	26.62 <sup>c</sup>
	±7.61	1.76	15.27	4.71	4.52	10.15	6.96
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	49.20	10.58	13.28	11.52	20.14	12.36 <sup>b</sup>	14.92 <sup>bd</sup>
	±26.64	2.56	3.99	2.55	17.27	3.07	4.04
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Aspartate Aminotransferase (U/l) - Females							
HS / 12	16.35 ±3.26 (4)	22.50 19.46 (5)	27.06 32.92 (5)	14.74 7.45 (5)	17.96 11.56 (5)	9.70 <sup>b</sup> 2.64 (5)	12.34 <sup>bd</sup> 4.38 (5)
HS / 16	31.26 ±15.72 (5)	11.84 3.06 (5)	9.72 2.54 (5)	9.25 3.28 (4)	8.45 2.80 (4)	12.15 <sup>b</sup> 2.73 (4)	13.70 <sup>bd</sup> 11.44 (4)
D70 / 8	24.58 ±15.95 (5)	16.44 14.25 (5)	22.46 15.97 (5)	21.70 8.12 (5)	19.24 2.13 (5)	18.06 1.62 (5)	22.16 <sup>c</sup> 5.47 (5)
D70 / 12	22.48 ±4.59 (4)	10.54 3.04 (5)	17.92 8.65 (5)	23.52 10.37 (5)	25.64 11.73 (5)	30.16 16.46 (5)	36.88 <sup>c</sup> 28.36 (5)
D70 / 16	28.84 ±20.10 (5)	19.28 18.94 (5)	27.84 13.40 (5)	28.48 5.13 (5)	28.88 3.05 (5)	27.58 3.74 (5)	26.08 <sup>c</sup> 4.10 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Alkaline Phosphatase (U/l) - Females							
RL / 16	87.06	75.34	65.54	67.44	60.66	59.44	53.94
	±18.19	11.82	13.15	20.33	18.72	13.63	14.21
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	118.10	103.88	117.38	120.52	132.80	123.12	121.68
	±47.79	62.06	48.81	46.84	50.79	46.35	39.11
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	123.86	74.14	92.80	97.46	94.10	94.34	84.18
	±108.18	52.48	69.60	80.90	80.56	79.96	78.96
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	66.82	67.54	79.74	74.78	71.04	64.14	50.86
	±46.47	28.52	35.15	31.11	32.96	27.63	36.57
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	132.94	93.30	94.38	92.16	93.16	86.42	73.38
	±60.05	27.35	16.72	13.53	12.46	5.96	18.55
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose	Study Day						
(ml/kg/day) -7	0	1	2	3	7	14	
Alkaline Phosphatase (U/l) - Females							
HS / 12	109.08	92.00	79.44	69.52 <sup>b</sup>	71.90 <sup>b</sup>	59.42 <sup>b</sup>	61.86 <sup>b</sup>
	±31.50	15.64	11.77	16.56	23.27	18.71	24.22
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	117.68	84.62	77.00	69.25	68.03	63.73	59.83
	±43.36	24.01	23.52	22.45	28.04	25.27	19.18
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	90.58	81.22	86.74	81.06	77.36	83.28	69.56
	±10.16	19.61	23.97	12.02	11.97	31.78	29.66
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	143.38	92.00	102.76	108.30	101.54	86.88	86.02
	±33.88	19.92	10.94	13.49	13.64	13.05	5.83
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	75.24	55.72	70.42 <sup>b</sup>	72.56 <sup>b</sup>	71.04 <sup>b</sup>	66.12	58.74
	±18.57	10.82	6.94	11.90	9.22	13.02	20.38
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Lactate Dehydrogenase (U/l) - Females							
RL / 16	270.70	85.56	84.98	65.20	89.28	86.12	265.04
	±157.21	68.87	71.52	53.11	66.54	97.22	156.26
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	204.06	142.02	92.26	54.04	73.70	104.68	97.14
	±146.02	99.20	23.83	27.23	52.71	52.03	62.88
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	217.08	79.28	58.40	45.02	83.46	58.18	191.16
	±110.39	64.37	26.72	10.76	78.65	45.29	309.21
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	200.18	52.06	119.68	73.18	98.06	61.80	111.76
	±171.21	20.10	83.46	60.08	99.70	60.53	108.35
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	346.92	88.34	127.70	97.60	164.12	84.36	136.64
	±190.20	53.11	91.36	75.13	123.24	18.78	50.59
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day 1                      2                      3                      7                      14					
Lactate Dehydrogenase (U/l) - Females							
HS / 12	153.95	117.32	86.44	99.50	98.82	90.74	147.62
	±115.17	110.30	49.36	67.49	96.74	68.82	112.76
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	240.78	89.92	47.32	67.98	59.68	68.20	86.00
	±97.40	84.96	21.63	51.56	20.25	20.36	33.12
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	181.40	91.64	81.54	45.58	67.08	50.30	84.60
	±135.30	93.26	44.83	13.18	30.53	25.25	87.18
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	149.68	61.62	74.08	51.24	55.92	73.66	108.06
	±73.55	17.97	34.54	21.57	18.20	25.21	88.60
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	246.04	89.66	64.68	110.54	104.36	96.26	92.88
	±147.69	61.67	38.73	48.18	71.42	109.03	82.78
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Gamma Glutamyl Transpeptidase (U/l) - Females							
RL / 16	6.14	5.48	5.14	5.44	4.72	5.94	4.22
	±1.73	0.92	0.79	0.34	1.98	1.32	1.47
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	6.02	5.20	5.30	6.30	5.84	5.96	4.26
	±0.93	1.18	2.02	1.77	1.23	1.79	1.35
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	5.92	5.04	5.20	5.50	4.56	5.40	4.08
	±1.80	1.35	2.01	1.16	1.19	1.85	2.02
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	6.78	6.60	5.14	5.26	6.14	7.50	3.86
	±1.08	0.83	3.06	1.58	1.35	2.60	1.70
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	6.14	5.82	4.92	5.12	5.48	5.06	5.40
	±3.58	0.77	2.05	1.29	0.79	1.31	1.62
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) ~7	0	Study Day					
		1	2	3	7	14	
Gamma Glutamyl Transpeptidase (U/l) - Females							
HS / 12	6.00	4.50	4.74	5.28	5.42	4.68	5.04
	±3.91	1.90	1.60	0.73	0.60	0.99	3.12
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	5.96	4.22	4.04	5.45	4.53	4.60	4.58
	±1.30	1.11	1.67	2.30	2.08	1.76	1.30
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	7.22	5.90	4.60	6.22	5.56	5.92	4.00
	±3.19	1.90	1.52	1.95	1.81	0.97	1.01
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	6.65	5.48	4.22	4.58	4.74	4.58	5.68
	±2.03	2.24	0.61	0.44	0.62	0.69	1.27
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	5.92	5.60	5.50	5.44	6.14	5.80	4.78
	±0.98	0.83	1.83	0.59	1.40	1.04	1.48
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Creatine Phosphokinase (U/l) - Females							
RL / 16	9186.9	775.5	768.9	572.1	646.7	903.0	2102.7
	±12083.5	344.0	480.2	122.8	163.0	808.5	2419.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	8974.4	801.8	1504.7	576.7	548.2	699.3	534.6
	±12482.9	530.8	1920.7	440.7	422.0	250.9	325.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	798.1	2896.3	1285.0	533.6	556.1	348.8	1463.2
	±432.5	3286.8	1049.9	340.1	292.0	175.6	2460.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	8172.4	594.6	692.6	594.0	468.9	339.4	402.1
	±11341.4	193.7	452.0	595.1	347.2	183.9	251.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	16621.6	863.5	1050.8	891.0	2942.7	826.4	1261.5
	±14615.0	250.7	465.5	379.9	3810.4	231.7	1040.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day		3	7	14	
		1	2				
Creatine Phosphokinase (U/l) - Females							
HS / 12	833.3	2471.8	1214.2	1697.2	990.5	526.6	1082.2
	±554.6	2315.1	615.6	1954.6	980.6	200.1	714.2
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	5383.5	840.3	601.4	619.8	612.9	1019.0	687.1
	±6849.2	296.0	161.4	337.7	255.3	804.7	242.3
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	4426.8	4141.4	1318.5	563.1	416.1	311.4	456.7
	±8373.8	6604.5	970.2	262.0	125.9	91.5	428.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	1443.9	1548.1	1098.4	628.3	476.0	539.4	525.4
	±1072.8	1133.9	926.9	346.9	247.0	188.0	253.6
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	6788.3	751.1	878.5	632.5	602.3	527.2	555.6
	±8657.2	386.0	593.0	158.8	395.6	473.6	445.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day					
	0	1	2	3	7	14
Total Bilirubin (mg/dl) - Females						
RL / 16	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Total Bilirubin (mg/dl) - Females							
HS / 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	±0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Cholesterol (mg/dl) - Females							
RL / 16	53.80	40.16	37.98 <sup>a</sup>	36.74	38.10	40.02	44.52
	±14.48	6.30	6.82	4.88	5.41	8.87	17.40
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	72.60	64.22	55.10 <sup>b</sup>	50.18 <sup>b</sup>	44.62 <sup>b</sup>	40.70 <sup>bde</sup>	28.46 <sup>bd</sup>
	±16.16	14.39	13.89	14.31	12.36	12.57	5.71
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	86.02	50.14	48.16	45.64	39.58	36.68 <sup>bde</sup>	29.40 <sup>bd</sup>
	±34.10	14.24	12.23	9.23	10.87	9.14	6.10
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	76.18	52.20	46.22	37.48 <sup>b</sup>	38.12 <sup>b</sup>	33.82 <sup>bde</sup>	27.70 <sup>bd</sup>
	±16.76	6.66	6.19	5.35	3.93	8.00	10.06
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	72.12	58.66	59.02	55.24 <sup>e</sup>	51.88 <sup>e</sup>	50.90 <sup>ce</sup>	58.74 <sup>ce</sup>
	±7.40	20.23	16.96	12.47	8.81	3.10	22.64
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Cholesterol (mg/dl) - Females							
HS / 12	66.40	54.08	51.28	51.58 <sup>e</sup>	48.62 <sup>e</sup>	53.60 <sup>ce</sup>	56.96 <sup>ce</sup>
	±25.62	14.01	17.81	18.44	12.08	15.25	19.96
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	56.52	40.34	38.98	41.95 <sup>e</sup>	39.65 <sup>e</sup>	50.88 <sup>ce</sup>	41.33 <sup>ce</sup>
	±16.32	16.06	14.45	13.14	9.95	13.47	8.78
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	60.70	60.28	49.78	43.42 <sup>d</sup>	39.70 <sup>d</sup>	34.18 <sup>cd</sup>	29.00 <sup>d</sup>
	±23.40	23.70	18.03	15.21	12.88	8.70	18.30
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	50.43	51.48	38.86 <sup>b</sup>	31.40 <sup>bd</sup>	27.02 <sup>bd</sup>	23.10 <sup>bcd</sup>	18.74 <sup>bd</sup>
	±11.89	9.69	4.84	5.19	2.58	4.72	8.20
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	57.72	43.28	30.90 <sup>b</sup>	26.74 <sup>bd</sup>	24.16 <sup>bd</sup>	17.40 <sup>bcd</sup>	14.34 <sup>bd</sup>
	±17.21	13.04	9.45	8.62	8.03	7.17	6.97
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Triglyceride (mg/dl) - Females							
RL / 16	50.4	53.8	60.6	49.8	61.6	59.6	69.8
	±15.0	28.3	39.1	13.6	22.0	23.6	27.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	55.4	48.0	56.6	64.0	58.0	63.8	35.2
	±31.7	25.4	15.0	32.9	32.9	22.0	13.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	69.6	47.4	80.0	68.4	61.4	47.0	58.0
	±33.7	9.7	43.2	23.3	29.0	15.7	12.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	69.2	86.4	73.4	86.8	89.6	65.8	69.8
	±48.3	24.4	42.9	41.4	65.2	31.3	82.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	51.0	145.2	122.4	124.6	98.2	125.0	61.8
	±10.2	91.8	44.6	59.5	26.5	53.0	14.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Triglyceride (mg/dl) - Females							
HS / 12	63.8	86.4	111.4	160.8	147.4	110.8	107.6
	±24.7	41.7	32.0	75.5	134.4	93.6	70.9
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	65.0	69.0	74.6	77.3	69.3	91.5	97.0
	±23.0	19.1	27.7	22.9	16.4	34.9	58.5
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	48.4	66.8	72.6	59.4	63.2	59.6	50.2
	±19.6	30.6	24.5	15.5	23.9	27.3	13.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	46.3	64.4	59.6	84.3	51.6	46.4 <sup>b</sup>	32.6 <sup>b</sup>
	±24.3	37.5	28.5	27.6	18.9	21.9	9.8
	(4)	(5)	(5)	(4)	(5)	(5)	(5)
D70 / 16	46.4	62.2	65.0	70.2	59.2	49.6	56.4
	±10.9	38.9	36.0	31.6	27.2	13.6	55.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Uric Acid (mg/dl) - Females							
RL / 16	0.06	0.04	0.06	0.06	0.12	0.08	0.10
	±0.05	0.05	0.09	0.05	0.04	0.04	0.10
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.08	0.06	0.04	0.04	0.10	0.08 <sup>g</sup>	0.08 <sup>c,g</sup>
	±0.08	0.05	0.05	0.05	0.07	0.04	0.04
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	0.08	0.06	0.02	0.06	0.08	0.02	0.02 <sup>ce</sup>
	±0.08	0.05	0.04	0.05	0.04	0.04	0.04
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.04	0.10	0.04	0.08	0.04	0.00 <sup>a</sup>	0.12 <sup>ce</sup>
	±0.05	0.07	0.05	0.04	0.05	0.00	0.16
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS' / 8	0.02	0.08	0.08	0.08	0.08	0.16 <sup>g</sup>	0.32 <sup>bd,g</sup>
	±0.04	0.04	0.08	0.08	0.08	0.05	0.50
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Uric Acid (mg/dl) - Females							
HS / 12	0.05	0.40	0.08	0.04	0.04	0.10	0.08 <sup>bde</sup>
	±0.10	0.84	0.04	0.05	0.05	0.00	0.04
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.06	0.08	0.10	0.10	0.15	0.05*	0.08 <sup>bde</sup>
	±0.09	0.04	0.07	0.08	0.06	0.06	0.05
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	0.08	0.08	0.06	0.10	0.08	0.08 <sup>g</sup>	0.06 <sup>ce</sup>
	±0.04	0.04	0.05	0.10	0.04	0.08	0.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.10	0.02	0.02	0.04	0.04	0.06	0.04 <sup>ce</sup>
	±0.08	0.04	0.04	0.05	0.05	0.05	0.05
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	0.08	0.04	0.08	0.04	0.08	0.02*	0.00 <sup>ce</sup>
	±0.04	0.05	0.04	0.05	0.04	0.04	0.00
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Total Protein (g/dl) - Females							
RL / 16	6.06 ±0.21 (5)	6.22 0.28 (5)	6.00 0.44 (5)	5.98 0.28 (5)	5.92 0.42 (5)	5.94 0.65 (5)	5.88 0.50 (5)
HSD / 8	6.00 ±0.45 (5)	5.88 0.45 (5)	5.72 0.44 (5)	5.78 0.26 (5)	5.86 0.46 (5)	6.20 <sup>gh</sup> 0.74 (5)	6.44 <sup>h</sup> 0.38 (5)
HSD / 12	6.48 ±0.44 (5)	6.34 0.18 (5)	6.02 0.44 (5)	6.20 0.41 (5)	6.40 0.57 (5)	7.22 <sup>bdf</sup> 0.94 (5)	7.36 <sup>bdfh</sup> 0.41 (5)
HSD / 16	6.18 ±0.41 (5)	6.10 0.22 (5)	6.40 0.23 (5)	6.56 0.47 (5)	6.88 <sup>bd</sup> 0.54 (5)	7.58 <sup>bdf</sup> 0.44 (5)	8.06 <sup>bdfg</sup> 0.39 (5)
HS / 8	6.34 ±0.41 (5)	6.20 0.80 (5)	6.06 0.76 (5)	6.18 0.62 (5)	6.24 0.62 (5)	6.00 0.57 (5)	6.00 0.44 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's low-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's middle-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's high-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.



TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Total Protein (g/dl) - Females							
HS / 12	6.00	6.14	5.96	5.92	5.92	5.76 <sup>ce</sup>	5.76 <sup>ce</sup>
	±0.50	0.43	0.36	0.48	0.40	0.55	0.46
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	6.14	6.10	5.94	5.93	5.93 <sup>ce</sup>	5.95 <sup>ce</sup>	5.55 <sup>ce</sup>
	±0.19	0.32	0.42	0.56	0.61	0.53	0.39
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	6.24	6.30	6.06	6.08	6.14	6.52 <sup>h</sup>	6.72 <sup>gh</sup>
	±0.25	0.29	0.18	0.25	0.44	0.98	0.37
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	6.20	6.20	6.14	6.42	6.72	7.18 <sup>bdfh</sup>	8.06 <sup>bdf</sup>
	±0.22	0.16	0.34	0.56	0.28	0.41	0.34
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	6.08	6.06	6.14	6.50	6.78 <sup>d</sup>	8.10 <sup>bdfg</sup>	8.32 <sup>bdf</sup>
	±0.15	0.19	0.44	0.76	0.52	0.68	0.82
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's low-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's middle-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective solution's high-dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Albumin (g/dl) - Females							
RL / 16	4.42	4.50	4.44	4.36	4.32	4.40	4.60
	±0.22	0.23	0.34	0.24	0.34	0.20	0.65
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	4.38	3.94	3.92	3.86 <sup>d</sup>	3.70 <sup>d</sup>	3.76 <sup>dgh</sup>	3.44 <sup>d</sup>
	±0.31	0.49	0.37	0.38	0.35	0.42	0.31
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	4.64	4.60	4.14 <sup>b</sup>	3.92 <sup>bd</sup>	3.64 <sup>bd</sup>	3.50 <sup>bdz</sup>	3.16 <sup>bd</sup>
	±0.44	0.35	0.23	0.22	0.34	0.25	0.19
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	4.56	4.44	4.32	3.82 <sup>bd</sup>	3.76 <sup>bd</sup>	3.34 <sup>bdz</sup>	3.34 <sup>bd</sup>
	±0.38	0.34	0.22	0.22	0.38	0.19	0.43
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	4.68	4.44	4.48	4.40 <sup>ce</sup>	4.34 <sup>ce</sup>	4.64 <sup>cegh</sup>	4.54 <sup>ce</sup>
	±0.19	0.67	0.38	0.37	0.34	0.22	0.49
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Albumin (g/dl) - Females							
HS / 12	4.53 ±0.43 (4)	4.34 0.18 (5)	4.18 0.22 (5)	4.24 <sup>ce</sup> 0.25 (5)	3.96 <sup>ce</sup> 0.50 (5)	4.22 <sup>ce</sup> 0.18 (5)	4.40 <sup>ce</sup> 0.19 (5)
HS / 16	4.68 ±0.28 (5)	4.50 0.10 (5)	4.36 0.33 (5)	4.43 <sup>ce</sup> 0.34 (4)	4.23 <sup>ce</sup> 0.28 (4)	4.30 <sup>ce</sup> 0.33 (4)	4.38 <sup>ce</sup> 0.29 (4)
D70 / 8	4.68 ±0.28 (5)	4.60 0.31 (5)	4.16 <sup>b</sup> 0.25 (5)	3.96 <sup>bd</sup> 0.11 (5)	4.00 <sup>bd</sup> 0.10 (5)	3.94 <sup>bdgh</sup> 0.36 (5)	3.72 <sup>bd</sup> 0.13 (5)
D70 / 12	4.45 ±0.26 (4)	4.50 0.23 (5)	4.04 0.30 (5)	3.94 <sup>bd</sup> 0.32 (5)	3.70 <sup>bd</sup> 0.20 (5)	3.42 <sup>bd</sup> 0.40 (5)	3.24 <sup>bd</sup> 0.32 (5)
D70 / 16	4.52 ±0.26 (5)	4.34 0.17 (5)	3.96 <sup>b</sup> 0.13 (5)	3.66 <sup>bd</sup> 0.21 (5)	3.50 <sup>bd</sup> 0.24 (5)	3.40 <sup>bd</sup> 0.20 (5)	3.04 <sup>bd</sup> 0.23 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Albumin/Globulin Ratio - Females							
RL / 16	2.74	2.84	2.80	2.86	2.76	3.24	4.36
	±0.43	0.89	0.44	0.91	0.73	1.15	2.62
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	2.70	2.12	2.20	2.06 <sup>d</sup>	1.86 <sup>d</sup>	1.54 <sup>dgh</sup>	1.18 <sup>bd</sup>
	±0.44	0.62	0.21	0.49	0.57	0.21	0.28
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	2.56	2.66	2.24	1.86 <sup>bd</sup>	1.54 <sup>bd</sup>	1.04 <sup>bdz</sup>	0.76 <sup>bd</sup>
	±0.59	0.55	0.52	0.66	0.77	0.46	0.15
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	2.82	2.68	2.16	1.42 <sup>bd</sup>	1.24 <sup>bd</sup>	0.80 <sup>bdz</sup>	0.70 <sup>bd</sup>
	±0.51	0.54	0.61	0.31	0.35	0.12	0.10
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	3.04	2.66	2.88	2.64 <sup>ce</sup>	2.42 <sup>ce</sup>	3.76 <sup>cegh</sup>	3.30 <sup>ce</sup>
	±1.20	0.93	0.46	0.74	0.50	1.34	1.09
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Albumin/Globulin Ratio - Females							
HS / 12	3.15 ±0.70 (4)	2.44 0.35 (5)	2.36 0.23 (5)	2.70 <sup>ca</sup> 0.60 (5)	2.12 <sup>ca</sup> 0.54 (5)	3.00 <sup>ca</sup> 1.17 (5)	3.50 <sup>ca</sup> 1.04 (5)
HS / 16	3.28 ±0.64 (5)	2.86 0.47 (5)	2.78 0.41 (5)	3.10 <sup>ca</sup> 0.62 (4)	2.58 <sup>ca</sup> 0.48 (4)	2.70 <sup>ca</sup> 0.68 (4)	4.13 <sup>ca</sup> 1.62 (4)
D70 / 8	3.20 ±0.86 (5)	2.72 0.45 (5)	2.22 0.33 (5)	1.90 <sup>bd</sup> 0.31 (5)	1.88 <sup>bd</sup> 0.43 (5)	1.58 <sup>bdgh</sup> 0.38 (5)	1.26 <sup>bd</sup> 0.18 (5)
D70 / 12	2.75 ±0.87 (4)	2.70 0.34 (5)	2.08 0.68 (5)	1.74 <sup>bd</sup> 0.73 (5)	1.22 <sup>bd</sup> 0.18 (5)	0.92 <sup>bd</sup> 0.15 (5)	0.68 <sup>bd</sup> 0.18 (5)
D70 / 16	2.94 ±0.48 (5)	2.66 0.61 (5)	1.84 <sup>b</sup> 0.30 (5)	1.40 <sup>bd</sup> 0.41 (5)	1.10 <sup>bd</sup> 0.21 (5)	0.74 <sup>bd</sup> 0.13 (5)	0.58 <sup>bd</sup> 0.13 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Glucose (mg/dl) - Females							
RL / 16	114.92	114.30	119.52	133.56	123.06	112.80	123.84
	±4.91	6.10	20.10	35.18	20.40	6.86	18.11
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	125.42	117.62	122.18	123.64	120.68	127.26	125.06
	±14.49	17.73	12.36	16.89	17.43	30.07	8.02
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	134.40	120.06	114.84	126.50	128.32	119.38	141.80
	±24.16	9.60	8.83	8.63	12.82	11.08	41.82
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	122.30	103.48	113.82	122.38	128.02	125.30	131.70
	±10.41	47.60	25.40	10.58	10.49	14.31	12.39
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	125.48	121.56	124.28	136.22	130.96	109.86	137.78
	±12.13	18.73	18.26	19.40	21.00	8.77	24.48
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Glucose (mg/dl) - Females							
HS / 12	120.93 ±9.56 (4)	185.96 123.62 (5)	135.14 16.71 (5)	126.94 8.69 (5)	131.86 16.56 (5)	129.66 20.81 (5)	116.18 36.34 (5)
HS / 16	113.18 ±15.60 (5)	121.04 18.16 (5)	131.72 8.62 (5)	132.55 13.18 (4)	126.75 10.49 (4)	124.53 17.70 (4)	127.53 8.19 (4)
D70 / 8	127.44 ±6.32 (5)	123.86 16.31 (5)	120.90 16.44 (5)	129.06 9.61 (5)	118.74 11.00 (5)	116.34 4.90 (5)	127.54 4.19 (5)
D70 / 12	117.15 ±8.66 (4)	123.30 7.74 (5)	121.22 16.30 (5)	126.48 15.97 (5)	122.80 15.57 (5)	114.58 13.64 (5)	137.72 3.41 (5)
D70 / 16	120.02 ±13.04 (5)	113.44 20.21 (5)	119.32 18.52 (5)	130.02 12.71 (5)	128.30 9.99 (5)	127.08 6.26 (5)	140.06 21.91 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>1</sup>

Group/Dose (ml/kg/day) -7	0	Study Day		3	7	14	
		1	2				
Blood Urea Nitrogen (mg/dl) - Females							
RL / 16	22.38	18.04	17.36	18.52	15.56	16.74	21.78
	±2.46	3.01	2.26	1.90	2.06	3.36	4.11
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	20.20	16.96	16.00	15.10	16.28	19.24	20.78
	±3.61	1.67	2.16	2.24	1.69	4.37	2.53
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	23.14	17.76	16.98	17.40	15.42	16.12	26.94
	±2.41	1.22	1.79	1.40	0.86	3.99	18.67
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	20.32	14.98	18.50	16.06	17.22	17.74	19.98
	±3.06	6.06	5.44	2.93	2.48	3.13	2.35
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	20.92	17.34	15.52	16.94	18.38	17.46	16.36
	±3.23	2.00	2.50	2.72	3.36	1.74	2.91
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>1</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Blood Urea Nitrogen (mg/dl) - Females							
HS / 12	19.10	17.86	18.62	17.28	16.96	15.38	18.90
	±2.37	3.07	4.13	3.12	4.02	2.04	2.09
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	18.76	17.30	16.12	14.88	16.28	13.70	17.38
	±2.44	1.58	2.37	5.80	2.50	2.20	5.12
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	20.62	19.00	16.56	14.88	15.64	15.26	15.78
	±3.16	3.70	1.96	3.35	3.03	3.77	3.36
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	21.78	17.80	17.30	17.16	15.90	17.08	17.02
	±4.25	2.71	2.10	1.12	0.64	3.17	2.78
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	21.34	17.60	16.84	15.00	14.84	17.54	21.22
	±3.53	3.09	3.35	2.39	1.51	3.49	6.38
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Creatinine (mg/dl) - Females							
RL / 16	1.10	1.24	1.14	1.22	1.38	1.58	1.18
	±0.10	0.13	0.09	0.18	0.39	0.75	0.18
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	1.02	1.04	0.98	1.06	1.18	1.22	1.06
	±0.13	0.22	0.11	0.11	0.13	0.31	0.11
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	1.08	0.96	1.08	1.10	1.06	1.18	1.18
	±0.11	0.15	0.23	0.14	0.13	0.20	0.45
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	1.02	0.82	0.94	1.36	1.12	1.34	1.14
	±0.24	0.44	0.27	0.67	0.25	0.24	0.13
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	1.22	1.54	1.36	1.16	1.42	1.22	1.16
	±0.40	0.89	0.71	0.17	0.35	0.28	0.18
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		0	Study Day		3	7	14
			1	2			
Creatinine (mg/dl) - Females							
HS / 12	1.03	1.10	1.08	1.14	1.20	1.12	1.10
	±0.25	0.19	0.19	0.23	0.28	0.16	0.07
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.98	1.12	1.04	1.10	0.93	1.48	1.20
	±0.13	0.39	0.21	0.16	0.22	0.52	0.54
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	1.06	1.00	1.04	1.08	0.92	1.04	0.96
	±0.11	0.16	0.34	0.41	0.08	0.27	0.17
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	1.08	0.98	0.90	0.94	1.06	0.98	1.06
	±0.10	0.08	0.16	0.05	0.13	0.08	0.21
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	1.10	1.00	1.04	1.08	1.14	1.18	1.12
	±0.19	0.14	0.15	0.15	0.11	0.13	0.23
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Calcium (mg/dl) - Females							
RL / 16	14.42 ±1.25 (5)	14.34 0.75 (5)	13.80 0.31 (5)	14.12 0.57 (5)	13.98 0.62 (5)	14.12 0.84 (5)	14.08 1.26 (5)
HSD / 8	13.90 ±1.60 (5)	14.06 0.78 (5)	13.36 0.36 (5)	13.70 0.61 (5)	13.50 1.01 (5)	13.32 <sup>dg</sup> 1.10 (5)	12.40 <sup>bd</sup> 0.64 (5)
HSD / 12	14.56 ±1.24 (5)	14.54 0.60 (5)	13.22 <sup>b</sup> 0.44 (5)	13.40 <sup>b</sup> 0.44 (5)	13.12 <sup>b</sup> 0.93 (5)	12.64 <sup>bd</sup> 0.94 (5)	11.82 <sup>bd</sup> 0.49 (5)
HSD / 16	14.53 ±1.13 (4)	14.78 0.87 (5)	14.00 0.58 (5)	13.30 <sup>b</sup> 0.50 (5)	13.22 <sup>b</sup> 0.68 (5)	12.36 <sup>bd</sup> 0.80 (5)	11.94 <sup>bd</sup> 0.56 (5)
HS / 8	13.86 ±1.32 (5)	13.90 1.02 (5)	14.52 0.85 (5)	14.52 0.56 (5)	14.26 <sup>a</sup> 1.08 (5)	14.70 <sup>ceg</sup> 0.72 (5)	13.44 <sup>ce</sup> 0.77 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Calcium (mg/dl) - Females							
HS / 12	13.83 ±0.73 (4)	14.24 0.86 (5)	13.40 0.68 (5)	13.86 0.34 (5)	13.38 <sup>e</sup> 0.75 (5)	14.58 <sup>ce</sup> 0.92 (5)	13.36 <sup>ce</sup> 0.76 (5)
HS / 16	14.48 ±1.03 (5)	14.96 0.65 (5)	14.24 0.37 (5)	14.03 0.48 (4)	14.35 <sup>e</sup> 0.25 (4)	13.00 <sup>cef</sup> 2.05 (4)	12.90 <sup>ce</sup> 0.80 (4)
D70 / 8	14.50 ±0.67 (5)	14.22 1.17 (5)	13.36 1.02 (5)	13.72 0.22 (5)	13.66 <sup>d</sup> 0.44 (5)	13.10 <sup>dg</sup> 1.65 (5)	12.32 <sup>bd</sup> 0.57 (5)
D70 / 12	14.58 ±1.15 (4)	14.52 0.71 (5)	13.40 <sup>b</sup> 1.08 (5)	13.76 0.53 (5)	13.14 <sup>bd</sup> 0.92 (5)	12.64 <sup>bd</sup> 0.95 (5)	11.86 <sup>bd</sup> 0.71 (5)
D70 / 16	13.14 ±1.79 (5)	14.40 0.49 (5)	13.38 <sup>b</sup> 0.19 (5)	13.26 <sup>b</sup> 0.44 (5)	13.16 <sup>bd</sup> 0.34 (5)	13.28 <sup>bdf</sup> 0.82 (5)	11.54 <sup>bd</sup> 0.61 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	0	Study Day 123714					
Phosphorus (mg/dl) - Females							
RL / 12	3.98 ±0.55 (5)	3.52 0.85 (5)	3.26 0.42 (5)	3.70 0.46 (5)	4.00 0.72 (5)	4.28 0.65 (5)	4.68 1.39 (5)
HSD / 8	4.26 ±0.65 (5)	3.80 0.54 (5)	3.66 0.42 (5)	4.16 0.11 (5)	4.50 0.21 (5)	4.50 0.57 (5)	4.38 0.67 (5)
HSD / 12	4.16 ±0.61 (5)	2.84 0.54 (5)	3.30 0.67 (5)	3.40 0.43 (5)	4.00 0.66 (5)	4.02 0.59 (5)	4.30 0.73 (5)
HSD / 16	3.96 ±1.12 (5)	3.90 0.70 (5)	3.82 0.68 (5)	4.10 0.43 (5)	4.50 0.29 (5)	4.50 0.67 (5)	4.70 0.91 (5)
HS / 8	3.92 ±0.73 (5)	3.68 0.65 (5)	3.64 0.57 (5)	4.32 0.23 (5)	4.50 0.99 (5)	4.32 0.31 (5)	4.96 <sup>d</sup> 0.96 (5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 3 (cont.)  
Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Phosphorus (mg/dl) - Females							
HS / 12	4.43	4.46	3.52	4.00	4.12	4.50	5.22 <sup>d</sup>
	±0.49	1.16	0.50	0.51	0.73	0.75	0.86
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	4.14	3.80	3.72	4.40	4.28	4.33	5.00 <sup>d</sup>
	±0.66	1.02	0.39	0.48	0.42	0.73	0.43
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	4.38	3.34	3.06	3.70	3.74	3.96	3.60 <sup>c</sup>
	±1.02	0.89	0.59	0.68	0.36	0.32	0.70
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	4.13	3.62	3.50	3.82	4.22	4.16	4.02 <sup>c</sup>
	±0.59	1.16	0.51	0.44	0.51	0.55	0.89
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	3.86	3.48	3.38	4.06	3.98	4.52 <sup>b</sup>	4.24 <sup>c</sup>
	±1.04	0.64	0.40	0.50	0.50	0.66	1.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Sodium (Meq/l) - Females							
RL / 16	145.92 ±1.64 (5)	148.72 1.69 (5)	147.24 1.49 (5)	147.96 2.12 (5)	148.18 2.31 (5)	147.94 1.87 (5)	148.68 3.92 (5)
HSD / 8	147.98 ±1.94 (5)	147.56 1.40 (5)	147.78 0.93 (5)	146.38 0.52 (5)	145.56 0.93 (5)	144.88 <sup>b</sup> 0.93 (5)	144.42 <sup>b</sup> 1.40 (5)
HSD / 12	147.60 ±3.42 (5)	147.16 0.59 (5)	148.02 1.65 (5)	147.56 2.51 (5)	145.40 2.18 (5)	144.56 0.46 (5)	146.46 6.32 (5)
HSD / 16	143.86 ±5.04 (5)	147.38 1.29 (5)	147.92 1.10 (5)	147.08 1.28 (5)	146.52 1.61 (5)	145.50 <sup>b</sup> 0.80 (5)	145.12 <sup>b</sup> 1.89 (5)
HS / 8	149.86 ±1.05 (5)	145.06 9.13 (5)	148.26 3.64 (5)	148.32 1.34 (5)	147.62 4.21 (5)	148.32 1.74 (5)	147.98 2.48 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.



**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Sodium (Meq/l) - Females							
HS / 12	146.88	147.38	150.22	148.20	147.54	146.54	144.82
	±0.89	1.74	6.65	3.18	3.24	1.27	1.02
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	148.14	147.78	147.82	146.95 <sup>b</sup>	147.55	146.50 <sup>b</sup>	146.15 <sup>b</sup>
	±2.73	2.14	1.40	1.42	1.41	1.01	1.51
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	148.78	148.28	147.20	147.18	147.16	145.92 <sup>b</sup>	145.06 <sup>b</sup>
	±3.30	0.67	0.72	1.50	1.25	1.15	0.57
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	146.23	148.64	147.88	146.48 <sup>b</sup>	146.58 <sup>b</sup>	145.88 <sup>b</sup>	144.82 <sup>b</sup>
	±2.32	2.09	1.93	1.87	1.14	1.21	0.90
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	145.56	148.58	147.72	145.72 <sup>a</sup>	145.68 <sup>b</sup>	145.42 <sup>b</sup>	144.46 <sup>b</sup>
	±4.34	1.52	1.69	0.49	0.88	1.37	1.40
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day					
	0	1	2	3	7	14
Chloride (Meq/l) - Females						
RL / 16	114.6	114.8	113.2	115.0	114.4	112.2
	$\pm 4.0$	6.3	2.8	0.7	3.6	4.1
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	115.4	115.3	113.8	112.0	111.8	111.8
	$\pm 4.7$	2.2	1.6	2.9	3.2	3.6
	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	114.0	113.0	112.6	112.8	114.0	110.2
	$\pm 6.4$	3.3	2.6	3.2	3.2	2.2
	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	111.0	112.2	109.4	111.6	112.0	110.2
	$\pm 7.2$	4.8	3.1	2.8	2.9	4.3
	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	116.2	107.8	113.2	112.6	113.4	112.0
	$\pm 3.3$	9.8	3.2	4.3	3.0	3.8
	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

TABLE 5 (cont.)

Serum Chemistry Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Chloride (Meq/l) - Females							
HS / 12	115.8 ±3.4 (4)	112.6 2.7 (5)	113.4 6.2 (5)	111.2 2.6 (5)	114.4 3.6 (5)	109.8 3.3 (5)	106.8 <sup>b</sup> 2.2 (5)
HS / 16	115.4 ±4.4 (5)	112.4 3.2 (5)	112.0 4.7 (5)	112.5 1.9 (4)	115.5 5.2 (4)	107.0 3.2 (4)	113.3 3.3 (4)
D70 / 8	116.6 ±1.5 (5)	114.2 3.4 (5)	110.4 3.5 (5)	111.8 1.6 (5)	112.6 1.5 (5)	111.2 1.5 (5)	110.6 1.8 (5)
D70 / 12	114.3 ±1.5 (4)	113.4 3.9 (5)	110.0 2.0 (5)	112.8 2.6 (5)	112.2 3.7 (5)	109.8 3.6 (5)	111.0 2.3 (5)
D70 / 16	113.4 ±3.7 (5)	115.6 4.9 (5)	113.6 0.9 (5)	112.8 0.8 (5)	113.4 3.0 (5)	111.6 2.7 (5)	111.4 4.5 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Potassium (Meq/l) - Females							
RL / 16	4.46	4.08	4.30	4.32	4.28	3.88	4.66
	±0.54	0.23	0.44	0.28	0.55	0.13	1.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	4.38	4.08	4.00	3.90	4.00	4.06	4.02
	±0.50	0.33	0.42	0.34	0.27	0.21	0.28
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	4.16	3.82	3.96	4.20	4.18	4.10	4.12
	±0.49	0.23	0.38	0.50	0.60	0.46	0.41
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	14.04	4.30	4.64	4.46	4.32	4.18	4.86
	±21.61	0.21	0.49	0.45	0.46	0.30	0.76
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	4.32	3.92	4.22	4.10	4.16	4.20	4.64
	±0.84	0.73	0.83	0.42	0.50	0.36	1.32
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Potassium (Meq/l) - Females							
HS / 12	4.68	4.20	4.00	4.12	4.36	4.30	4.58
	±0.38	0.43	0.43	0.25	0.25	0.29	0.20
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	4.66	4.22	4.28	4.65	4.38	4.05	3.98
	±0.30	0.33	0.34	0.81	0.28	0.49	1.03
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	4.36	3.90	4.04	3.82	4.10	3.94	3.92
	±0.23	0.35	0.58	0.23	0.37	0.31	0.37
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	4.50	4.10	4.04	4.08	4.08	3.96	4.20
	±0.29	0.26	0.36	0.46	0.25	0.60	0.48
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	4.64	3.96	4.10	4.26	4.18	4.30	4.18
	±0.47	0.23	0.16	0.38	0.24	0.41	0.52
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Iron (µg/dl) - Females							
RL / 16	165.88	418.82	334.76	377.60	471.04	379.54	125.72
	±38.53	133.01	119.77	69.34	291.59	169.98	63.02
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 9	181.53	265.90	286.66	446.30	338.62	141.70	163.22
	±52.30	189.66	198.27	191.91	171.36	27.87	72.78
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	188.28	426.78	344.46	345.82	362.50	203.76 <sup>b</sup>	142.70 <sup>b</sup>
	±42.58	62.96	118.72	120.42	139.06	7.93	67.48
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	204.04	354.42	198.66	361.74	325.66	176.32 <sup>b</sup>	176.64 <sup>b</sup>
	±113.18	153.11	118.63	133.92	111.55	21.01	76.60
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	174.36	829.88	288.94	250.74	271.06	267.26	144.68
	±89.50	1098.98	158.34	117.35	91.71	112.96	128.58
	(5)	(5)	(5)	(5)	(5)	(5)	(4)

<sup>a</sup> Data are presented the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Iron (µg/dl) - Females							
HS / 12	173.43	420.36	506.20	557.98	428.90	207.58	231.44
	±48.20	182.19	230.59	354.48	331.41	64.36	108.20
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	154.82	430.36	435.16	419.15	446.63	380.50	214.23
	±59.57	126.38	135.16	90.27	74.21	188.01	126.19
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	186.88	463.90	423.24	550.94	499.02	286.62	249.16
	±42.82	318.31	265.75	190.92	239.76	103.80	136.41
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	183.65	480.02	379.92	310.28	373.96	172.20 <sup>b</sup>	108.22 <sup>b</sup>
	±49.99	105.89	161.58	127.11	78.37	90.16	41.54
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	146.46	421.84	337.18	232.40	288.78	152.64 <sup>b</sup>	123.56 <sup>b</sup>
	±63.34	211.71	196.78	153.24	143.05	46.00	59.77
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Magnesium (mg/dl) - Females							
RL / 16	1.950	2.008	1.946	1.980	2.006	2.072	2.002
	±0.147	0.106	0.129	0.216	0.248	0.184	0.422
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	2.018	1.770	1.706	1.690	1.762	1.626	1.550 <sup>c</sup>
	±0.289	0.101	0.067	0.145	0.191	0.221	0.090
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	1.932	1.720	1.646	1.690	1.746	1.602	1.422 <sup>c</sup>
	±0.208	0.118	0.089	0.219	0.242	0.310	0.160
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	1.895	1.824	1.864	1.644	1.712	1.534	1.444 <sup>c</sup>
	±0.097	0.244	0.209	0.202	0.129	0.233	0.411
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	1.978	1.940	1.968	2.028	2.008	1.936	2.062 <sup>bd</sup>
	±0.198	0.118	0.158	0.155	0.174	0.094	0.357
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.



**TABLE 5 (cont.)**  
**Serum Chemistry Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Magnesium (mg/dl) - Females							
HS / 12	1.925	1.966	1.650	1.752	1.738	1.868	1.834 <sup>bd</sup>
	±0.345	0.325	0.157	0.115	0.168	0.209	0.282
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	1.890	1.878	1.752	1.795	1.815	1.760	1.625 <sup>bd</sup>
	±0.175	0.177	0.151	0.152	0.169	0.332	0.438
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	1.870	1.870	1.720	1.672	1.638	1.744	1.520 <sup>c</sup>
	±0.135	0.270	0.130	0.125	0.207	0.210	0.109
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	1.913	1.986	1.784	1.834	1.798	1.686	1.526 <sup>c</sup>
	±0.255	0.102	0.268	0.178	0.163	0.292	0.254
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	1.900	1.728	1.704	1.528	1.558	1.614	1.426 <sup>c</sup>
	±0.243	0.140	0.117	0.101	0.156	0.034	0.111
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Erythrocytes ( $\times 10^6/\mu\text{l}$ ) - Males							
RL / 16	6.166	5.084	4.710	4.576	4.386 <sup>b</sup>	4.624	4.814
	$\pm 0.441$	0.659	0.603	0.342	0.480	0.615	0.463
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 8	6.036	5.210	5.038	4.384 <sup>b</sup>	4.454 <sup>b</sup>	4.198 <sup>bd</sup>	3.942 <sup>bdg</sup>
	$\pm 0.664$	0.314	0.346	0.343	0.463	0.382	0.356
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	6.312	5.356	5.052 <sup>b</sup>	4.784 <sup>b</sup>	4.456 <sup>b</sup>	4.340 <sup>bd</sup>	4.080 <sup>bd</sup>
	$\pm 0.100$	0.289	0.223	0.095	0.162	0.228	0.094
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	6.060	4.774	4.358	4.026 <sup>b</sup>	3.740 <sup>b</sup>	3.344 <sup>bd</sup>	3.288 <sup>bdz</sup>
	$\pm 0.289$	0.368	0.304	0.436	0.367	0.500	0.257
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	5.820	4.798	4.680	4.564	4.617	4.586 <sup>ce</sup>	4.714 <sup>ceg</sup>
	$\pm 0.993$	0.928	0.988	1.098	1.084	1.062	0.283
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at  $p = 0.05$  using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Erythrocytes (x10 <sup>6</sup> /μl) - Males							
HS / 12	6.290 ±0.446 (5)	5.254 0.212 (5)	4.728 <sup>b</sup> 0.351 (5)	4.444 <sup>b</sup> 0.481 (5)	4.316 <sup>b</sup> 0.508 (5)	4.196 <sup>bce</sup> 0.524 (5)	4.950 <sup>bce</sup> 0.250 (5)
HS / 16	6.048 ±0.081 (5)	5.160 0.336 (5)	4.804 0.383 (5)	4.568 <sup>a</sup> 0.403 (5)	4.398 <sup>b</sup> 0.341 (5)	4.494 <sup>bce</sup> 0.471 (5)	4.298 <sup>bce</sup> 0.654 (5)
D70 / 8	6.376 ±0.500 (5)	5.412 0.453 (5)	4.958 0.386 (5)	4.634 <sup>b</sup> 0.439 (5)	4.390 <sup>b</sup> 0.400 (5)	4.138 <sup>bd</sup> 0.515 (5)	4.186 <sup>bdg</sup> 0.483 (5)
D70 / 12	6.360 ±0.402 (5)	5.304 0.404 (5)	4.856 0.387 (5)	4.462 <sup>b</sup> 0.491 (5)	4.252 <sup>b</sup> 0.325 (5)	4.220 <sup>bd</sup> 0.259 (4)	3.867 <sup>bd</sup> 0.398 (3)
D70 / 16	6.054 ±0.600 (5)	5.166 0.532 (5)	4.746 0.648 (5)	4.268 <sup>b</sup> 0.438 (5)	4.060 <sup>b</sup> 0.478 (5)	3.630 <sup>bd</sup> 0.319 (5)	3.374 <sup>bd</sup> 0.490 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Hemoglobin (g/dl) - Males							
RL / 16	13.68	11.74	11.30	10.76	10.32	10.74	10.68
	±1.00	1.12	1.08	0.62	0.99	0.76	0.76
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	13.16	11.86	11.45	10.24 <sup>b</sup>	10.10 <sup>b</sup>	9.90 <sup>bd</sup>	9.08 <sup>bd</sup>
	±1.07	0.67	0.10	0.36	0.70	0.53	0.92
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	13.52	11.64	11.06 <sup>b</sup>	10.52 <sup>b</sup>	9.96 <sup>b</sup>	9.96 <sup>b</sup>	9.60 <sup>b</sup>
	±0.40	0.75	0.36	0.41	0.36	0.66	0.60
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	13.38	10.90	10.10	9.38 <sup>b</sup>	8.82 <sup>b</sup>	7.96 <sup>b</sup>	7.85 <sup>bd</sup>
	±0.46	0.93	0.80	1.08	0.79	1.02	0.49
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	12.90	10.92	10.84	10.58	10.66	10.74 <sup>ce</sup>	10.50 <sup>ce</sup>
	±1.10	1.14	1.25	1.62	1.94	1.98	0.87
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Hemoglobin (g/dl) - Males							
HS / 12	13.38	11.72	10.66	9.98 <sup>b</sup>	9.78 <sup>b</sup>	9.60 <sup>b</sup>	10.60 <sup>a</sup>
	±0.77	0.37	0.53	0.82	0.91	1.22	1.15
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	12.86	11.52	10.84	10.24	10.16	10.08	9.80 <sup>c</sup>
	±0.32	0.50	0.53	0.66	0.47	0.98	1.78
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	13.44	11.68	10.74	10.20 <sup>b</sup>	9.68 <sup>b</sup>	9.28 <sup>bd</sup>	9.22 <sup>bd</sup>
	±0.78	0.88	0.90	0.62	0.91	0.87	0.87
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	13.48	11.80	10.82 <sup>b</sup>	10.02 <sup>b</sup>	9.56 <sup>b</sup>	9.85 <sup>b</sup>	9.20 <sup>bd</sup>
	±1.07	1.54	1.20	1.46	1.14	0.75	1.10
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	12.96	11.34	10.60	9.80 <sup>b</sup>	9.26 <sup>b</sup>	8.46 <sup>b</sup>	7.82 <sup>b</sup>
	±0.56	0.53	0.82	0.46	0.62	0.63	1.01
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective D70 dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Hematocrit (%) - Males							
RL / 16	41.58	35.00	32.53	31.78	30.72	32.48	32.92
	±2.96	3.56	3.25	2.08	3.11	2.66	2.81
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 8	40.46	35.56	34.23	30.36 <sup>b</sup>	30.64 <sup>b</sup>	29.58 <sup>bd</sup>	27.56 <sup>bd</sup>
	±2.86	1.32	0.69	0.94	2.91	1.82	2.36
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	41.62	35.92	32.92	32.10 <sup>b</sup>	30.22 <sup>b</sup>	30.00 <sup>bd</sup>	28.50 <sup>bd</sup>
	±1.43	2.22	1.22	0.97	0.64	2.12	1.56
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	40.86	33.04	30.26	28.20 <sup>b</sup>	26.38 <sup>b</sup>	24.24 <sup>bd</sup>	24.00 <sup>bd</sup>
	±1.17	2.87	2.16	3.14	2.29	2.65	1.56
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	38.92	32.98	32.48	31.26	32.44	32.09 <sup>ce</sup>	32.44 <sup>ce</sup>
	±4.68	4.29	4.56	5.55	6.02	6.37	2.38
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Hematocrit (%) - Males							
HS / 12	41.06	35.12	32.06	30.22 <sup>b</sup>	29.72 <sup>b</sup>	28.96 <sup>bca</sup>	32.72 <sup>ca</sup>
	±2.38	1.29	1.85	3.22	3.74	3.81	3.51
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	39.42	34.52	32.22	30.74	30.00	30.52 <sup>ca</sup>	28.94 <sup>ca</sup>
	±0.97	1.84	2.13	2.27	1.93	2.87	5.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	41.42	35.94	32.80 <sup>b</sup>	30.98 <sup>b</sup>	29.56 <sup>b</sup>	28.50 <sup>bd</sup>	28.60 <sup>bd</sup>
	±3.08	3.26	2.98	2.79	2.79	2.58	2.17
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	41.52	35.40	32.50 <sup>b</sup>	30.20 <sup>b</sup>	28.86 <sup>b</sup>	29.83 <sup>bd</sup>	27.67 <sup>bd</sup>
	±3.79	4.34	3.96	4.32	3.60	2.76	4.13
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	39.74	34.68	32.00	29.04 <sup>b</sup>	27.84 <sup>b</sup>	25.74 <sup>bd</sup>	24.00 <sup>bd</sup>
	±2.28	1.97	2.91	1.89	2.06	1.80	2.90
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day		3	7	14	
		1	2				
Mean Corpuscular Volume (femtoliters) - Males							
RL / 16	67.50 ±2.80 (5)	69.16 3.65 (5)	69.30 3.75 (4)	69.56 3.19 (5)	70.18 2.99 (5)	70.62 3.98 (5)	68.50 2.02 (5)
HSD / 8	67.32 ±3.13 (5)	68.38 3.47 (5)	68.10 4.00 (4)	69.50 3.70 (5)	68.90 3.47 (5)	70.70 4.71 (5)	70.04 <sup>d</sup> 4.05 (5)
HSD / 12	65.94 ±1.96 (5)	67.08 1.97 (5)	67.22 1.53 (5)	67.14 2.22 (5)	67.90 2.30 (5)	69.08 <sup>b</sup> 2.96 (5)	69.84 <sup>bd</sup> 3.30 (5)
HSD / 16	67.48 ±1.77 (5)	69.16 0.98 (5)	69.42 0.88 (5)	70.00 0.83 (5)	70.64 1.49 (5)	72.84 <sup>b</sup> 3.90 (5)	72.95 <sup>bd</sup> 1.27 (4)
HS / 8	67.52 ±4.80 (5)	69.62 6.19 (5)	70.62 7.63 (5)	71.42 8.07 (5)	71.36 7.15 (5)	70.50 4.14 (5)	62.76 <sup>ce</sup> 14.18 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.



TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Mean Corpuscular Volume (femtoliters) - Males							
HS / 12	65.34 ±2.13 (5)	66.90 2.62 (5)	67.88 2.81 (5)	68.00 2.54 (5)	68.88 3.18 (5)	69.04 2.69 (5)	65.98 <sup>ce</sup> 4.39 (5)
HS / 16	65.20 ±1.39 (5)	66.92 1.32 (5)	67.12 1.35 (5)	67.38 1.69 (5)	68.26 1.29 (5)	67.98 1.70 (5)	67.12 <sup>ce</sup> 2.23 (5)
D70 / 8	65.02 ±2.55 (5)	66.40 2.81 (5)	66.14 2.00 (5)	66.88 1.99 (5)	67.38 2.05 (5)	69.10 2.68 (5)	68.70 <sup>d</sup> 4.50 (5)
D70 / 12	65.24 ±3.21 (5)	66.54 4.20 (5)	66.76 3.67 (5)	67.48 3.54 (5)	67.68 3.76 (5)	70.58 2.11 (4)	71.37 <sup>d</sup> 3.45 (3)
D70 / 16	65.86 ±2.76 (5)	67.36 3.48 (5)	67.80 4.04 (5)	68.24 3.45 (5)	68.88 <sup>b</sup> 4.05 (5)	71.00 <sup>b</sup> 3.80 (5)	71.44 <sup>bd</sup> 4.08 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Mean Corpuscular Hemoglobin (picograms) - Males							
RL / 16	22.22 ±1.19 (5)	23.26 2.17 (5)	23.40 2.35 (4)	23.58 1.83 (5)	23.58 1.30 (5)	23.38 1.70 (5)	22.24 0.99 (5)
HSD / 8	21.86 ±0.84 (5)	22.76 0.98 (5)	22.83 1.43 (4)	23.46 1.15 (5)	22.74 1.05 (5)	23.72 1.92 (5)	23.10 <sup>d</sup> 2.38 (5)
HSD / 12	21.42 ±0.70 (5)	21.74 0.68 (5)	21.96 1.22 (5)	22.02 1.03 (5)	22.24 1.38 (5)	22.96 <sup>b</sup> 1.18 (5)	23.54 <sup>bd</sup> 1.28 (5)
HSD / 16	22.10 ±0.72 (5)	22.82 0.25 (5)	23.16 0.49 (5)	23.30 0.33 (5)	23.60 0.35 (5)	23.88 1.12 (5)	23.93 <sup>d</sup> 0.56 (4)
HS / 8	22.48 ±2.45 (5)	23.20 2.75 (5)	23.70 3.32 (5)	23.74 3.02 (5)	23.48 2.59 (5)	23.64 1.60 (5)	22.26 <sup>ca</sup> 0.55 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Mean Corpuscular Hemoglobin (picograms) - Males							
HS / 12	21.30 ±0.92 (5)	22.34 1.29 (5)	22.62 1.56 (5)	22.52 0.86 (5)	22.74 1.72 (5)	22.88 0.64 (5)	21.36 <sup>ce</sup> 1.45 (5)
HS / 16	21.26 ±0.46 (5)	22.36 0.75 (5)	22.62 0.60 (5)	22.47 1.00 (5)	23.16 0.85 (5)	22.44 0.35 (5)	22.74 <sup>ce</sup> 0.75 (5)
D70 / 8	21.08 ±0.73 (5)	21.58 0.90 (5)	21.68 1.19 (5)	22.08 1.11 (5)	22.08 0.95 (5)	22.50 1.10 (5)	22.10 <sup>d</sup> 1.70 (5)
D70 / 12	21.20 ±0.92 (5)	22.16 1.53 (5)	22.22 0.94 (5)	22.38 1.13 (5)	22.44 1.08 (5)	23.33 0.41 (4)	23.77 <sup>d</sup> 0.67 (3)
D70 / 16	21.50 ±1.32 (5)	22.06 1.34 (5)	22.48 1.50 (5)	23.08 1.38 (5)	22.96 1.57 (5)	23.34 1.11 (5)	23.26 <sup>d</sup> 1.68 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	Study Day					
		1	2	3	7	14	
Mean Corpuscular Hemoglobin Concentration (g/dl) - Males							
RL / 16	32.90	33.58	33.68	33.92	33.64	33.12	32.48
	±0.55	1.52	1.64	1.87	0.92	0.63	0.76
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 8	32.52	33.36	33.43	33.76	33.04	33.48	32.94
	±0.36	1.02	0.44	0.67	1.17	0.70	1.47
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	32.50	32.40	32.64	32.76	32.80	33.22	33.68
	±0.46	0.20	1.17	0.44	1.40	0.59	0.31
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	32.74	33.00	33.34	33.22	33.42	32.78	32.73
	±0.56	0.20	0.32	0.44	0.22	1.41	0.24
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	33.28	33.20	33.50	33.24	32.90	33.56	32.36
	±1.35	1.03	1.31	1.12	0.42	0.53	0.47
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day		3	7	14	
		1	2				
Mean Corpuscular Hemoglobin Concentration (g/dl) - Males							
HS / 12	32.60 ±0.45 (5)	33.38 1.02 (5)	33.28 1.32 (5)	33.10 1.04 (5)	33.02 1.56 (5)	33.16 0.50 (5)	32.42 0.28 (5)
HS / 16	32.62 ±0.84 (5)	33.36 0.51 (5)	33.68 0.78 (5)	33.32 0.68 (5)	33.88 0.71 (5)	33.02 0.34 (5)	33.84 0.67 (5)
D70 / 8	32.48 ±0.79 (5)	32.52 0.76 (5)	32.76 1.10 (5)	33.00 1.12 (5)	32.76 0.72 (5)	32.56 0.69 (5)	32.20 0.82 (5)
D70 / 12	32.52 ±0.68 (5)	33.30 1.11 (5)	33.34 1.04 (5)	33.16 0.66 (5)	33.16 1.29 (5)	33.05 0.82 (4)	33.37 1.24 (3)
D70 / 16	32.62 ±0.70 (5)	32.70 0.70 (5)	33.14 0.84 (5)	33.78 1.07 (5)	33.28 0.74 (5)	32.86 0.42 (5)	32.58 1.00 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Platelets (x10 <sup>3</sup> /μl) - Males							
RL / 16	343.4	546.4	502.3	521.6	504.6	574.0	750.2 <sup>b</sup>
	±72.7	148.3	78.5	108.6	168.6	177.4	135.0
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 8	402.8	378.2	419.5	386.6	392.8	323.0	503.4
	±95.7	157.3	170.3	139.2	132.8	162.6	285.9
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	374.0	444.0	465.4	460.6	413.8	470.8	471.8
	±60.5	122.4	90.8	132.8	122.7	84.9	183.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	341.8	482.0	468.0	449.8	436.6	392.8	523.0
	±109.7	204.0	145.1	89.5	94.2	117.7	143.7
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	359.0	440.6	525.4	540.0	539.8	553.2	777.8
	±69.4	66.8	68.6	101.4	189.5	140.0	423.7
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Platelets (x10 <sup>3</sup> /μl) - Males							
HS / 12	387.8	246.6	262.4	248.8	285.0	457.6	505.8
	±96.0	86.8	85.5	97.7	122.6	320.7	317.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	327.8	443.6	523.0	534.0	574.0	568.2	626.8
	±139.7	124.1	109.2	69.6	179.6	180.8	506.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	357.2	479.8	500.8	516.2	464.2	460.8	525.5
	±31.4	183.1	142.3	113.4	117.8	106.3	347.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	291.8	474.0	495.0	477.2	403.6	349.3	492.7
	±112.1	67.3	75.5	46.8	62.4	93.0	59.5
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	430.0	425.2	427.0	452.8	394.0	452.8	460.8
	±100.9	175.6	151.9	84.2	117.5	112.4	405.8
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		0	Study Day		3	7	14
			1	2			
Reticulocytes (%) - Males							
RL / 16	4.00	5.66	6.28	6.30	7.44 <sup>b</sup>	7.26 <sup>b</sup>	8.22 <sup>b</sup>
	±0.99	0.79	0.63	1.37	0.92	1.11	0.83
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	4.34	5.44	5.88	6.32	7.32	6.74	7.38
	±0.63	0.86	0.71	1.65	1.13	1.31	1.39
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	5.08	6.22	6.02	7.08	6.96	6.58	7.92
	±1.76	1.50	1.39	1.13	1.14	1.59	1.29
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	4.42	5.78	6.04	6.64	7.74	6.82	7.63
	±1.26	0.54	0.50	1.33	0.69	1.38	0.90
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	5.08	6.12	6.56	7.06	7.80	7.46	8.26
	±1.90	1.72	1.33	1.12	1.83	1.61	0.64
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.



**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) ~7		Study Day					
		0	1	2	3	7	14
Reticulocytes (%) - Males							
HS / 12	5.24	6.24	6.80	6.52	7.86	7.90	7.86
	±2.75	2.18	1.31	1.13	1.83	2.04	0.62
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	5.29	5.72	6.54	6.40	6.74	7.24 <sup>b</sup>	8.12 <sup>b</sup>
	±2.21	1.90	0.96	1.21	1.37	1.59	0.86
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	4.80	6.16	6.16	7.04	7.44 <sup>b</sup>	7.82 <sup>b</sup>	8.18 <sup>b</sup>
	±2.31	1.53	1.68	0.57	1.16	1.72	0.66
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	5.16	6.16	6.24	7.10	8.34	7.13	6.90
	±1.91	1.44	1.14	2.31	2.43	1.25	1.93
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	4.96	5.88	6.46	6.52	7.42 <sup>b</sup>	7.58 <sup>b</sup>	8.22 <sup>b</sup>
	±1.33	1.92	1.44	1.10	1.23	1.61	0.81
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Nucleated Red Blood Cells (#/100 WBC) - Males							
RL / 16	0.4	1.0	1.0	0.8	0.8	0.0	1.4
	±0.9	2.2	1.4	1.8	1.8	0.0	3.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.2	0.6	0.0	0.0	0.8	0.0	0.0
	±0.4	1.3	0.0	0.0	1.3	0.0	0.0
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	0.0	0.0	0.4	0.0	0.4	0.4	0.0
	±0.0	0.0	0.9	0.0	0.9	0.5	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.0	0.0	0.4	0.4	0.2	0.0	0.0
	±0.0	0.0	0.9	0.5	0.4	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	0.0	2.0	1.8	3.6	4.4	0.4	0.0
	±0.0	3.4	4.0	7.5	9.3	0.9	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		0	Study Day		3	7	14
			1	2			
Nucleated Red Blood Cells (#/100 WBC) - Males							
HS / 12	0.0	1.4	1.8	4.0	3.0	0.4	0.4
	±0.0	1.3	2.2	4.3	4.1	0.9	0.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.0	1.2	0.0	0.6	1.6	0.0	1.6
	±0.0	2.7	0.0	0.9	2.1	0.0	3.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	0.0	0.4	0.2	1.4	2.2	1.2	0.2
	±0.0	0.5	0.4	3.1	3.9	1.8	0.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.0	1.6	2.2	5.6	5.6	0.0	0.0
	±0.0	2.6	3.0	10.9	10.9	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	1.1	2.0	2.2	4.0	1.0	0.8	0.0
	±2.5	2.9	2.9	3.5	1.4	0.8	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day 1                      2                      3                      7                      14					
Total Leukocyte Count (x10 <sup>3</sup> /μl) - Males							
RL / 16	8.66 ±1.72 (5)	9.72 1.58 (5)	9.92 2.06 (5)	10.70 3.66 (5)	8.58 0.96 (5)	9.60 2.55 (5)	10.38 2.96 (5)
HSD / 8	7.14 ±1.63 (5)	10.32 1.13 (5)	8.90 1.15 (4)	9.16 0.83 (5)	9.72 1.05 (5)	6.60 <sup>b</sup> 1.47 (5)	6.64 <sup>bc</sup> 1.32 (5)
HSD / 12	7.86 ±2.38 (5)	8.70 2.28 (5)	8.40 1.79 (5)	7.42 1.34 (5)	6.76 1.22 (5)	7.22 2.35 (5)	6.32 <sup>c</sup> 2.32 (5)
HSD / 16	7.28 ±0.75 (5)	9.58 1.97 (5)	8.18 1.23 (5)	7.20 <sup>b</sup> 1.51 (5)	6.72 <sup>b</sup> 0.71 (5)	5.28 <sup>b</sup> 1.12 (5)	5.40 <sup>bc</sup> 1.93 (4)
HS / 8	7.64 ±1.47 (5)	9.04 3.32 (5)	10.72 3.50 (5)	9.64 1.73 (5)	10.16 1.34 (5)	8.38 2.33 (5)	9.26 <sup>d</sup> 1.76 (5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at  $p = 0.05$  using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day		3	7	14	
		1	2				
Total Leukocyte Count ( $\times 10^3/\mu\text{l}$ ) - Males							
HS / 12	7.32	9.32	9.66	9.86	10.30	8.94	7.96 <sup>d</sup>
	$\pm 1.00$	2.86	2.75	3.37	3.48	0.87	3.86
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	6.58	8.78	8.98	9.48	9.00	7.62	8.24 <sup>d</sup>
	$\pm 2.14$	1.23	2.50	3.79	1.77	1.58	3.43
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	8.36	8.74	8.96	8.96	8.38	8.22	7.12
	$\pm 2.31$	2.03	0.99	1.16	2.55	1.38	1.49
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	7.56	10.20	9.88	9.58	7.74	6.93	8.83
	$\pm 0.71$	1.08	1.20	1.66	1.70	1.14	5.44
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	7.42	9.62	10.04	10.88	9.20	6.94 <sup>b</sup>	6.94 <sup>b</sup>
	$\pm 1.56$	1.64	0.96	2.25	1.88	1.48	1.45
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at  $p = 0.05$  using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Heterophils (%) - Males							
RL / 16	25.8	36.4	41.6	40.8	38.8	36.8	48.2
	±4.4	11.1	14.7	18.8	15.5	12.4	10.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	30.8	40.0	58.3	43.6	40.8	38.8	39.6
	±6.8	5.5	10.1	18.1	17.0	10.3	11.5
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	38.2	33.6	46.2	41.0	41.2	40.2	45.8
	±10.5	16.3	15.7	12.7	15.2	11.3	24.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	24.6	50.6	56.2	41.8	49.0	49.0	61.8
	±15.0	22.5	12.2	8.5	13.0	16.6	20.7
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	37.4	41.2	41.8	38.2	35.2	47.2	54.2
	±15.7	9.2	14.0	7.0	18.8	10.5	27.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Heterophils (%) - Males							
HS / 12	20.0	44.2	43.2	41.2	35.4	44.0	51.8
	±9.2	6.4	17.7	11.4	17.4	16.6	18.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	31.2	52.2	44.6	41.2	45.6	45.4	44.4
	±14.2	22.5	10.9	10.9	9.9	8.4	17.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	30.0	39.4	41.0	43.6	31.0	35.2	45.2
	±4.1	20.8	8.1	10.2	8.7	16.3	15.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	22.4	43.8	41.4	38.8	39.4	40.8	53.0
	±6.8	16.1	5.7	5.9	9.4	11.6	15.9
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	29.0	34.4	36.8	50.2	52.4 <sup>b</sup>	52.2 <sup>b</sup>	55.4 <sup>b</sup>
	±16.3	6.9	9.1	15.4	13.8	8.5	8.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Immature Neutrophils (%) - Males							
RL / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) ~	Study Day					
	0	1	2	3	7	14
Immature Neutrophils (%) - Males						
HS / 12	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Eosinophils (%) - Males							
RL / 16	0.8	0.8	0.6	0.0	0.0	0.0	0.2
	$\pm 1.3$	0.8	0.9	0.0	0.0	0.0	0.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.2	0.0	0.3	0.0	0.0	0.0	0.0
	$\pm 0.4$	0.0	0.5	0.0	0.0	0.0	0.0
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	0.2	0.0	0.2	0.0	0.0	0.0	0.2
	$\pm 0.4$	0.0	0.4	0.0	0.0	0.0	0.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.2	0.4	0.4	0.4	0.0	0.0	0.0
	$\pm 0.4$	0.9	0.5	0.9	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	$\pm 0.9$	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Eosinophils (%) - Males							
HS / 12	0.0	0.4	0.2	0.2	0.2	0.0	0.0
	±0.0	0.9	0.4	0.4	0.4	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.0	0.2	0.4	0.0	0.0	0.2	0.0
	±0.0	0.4	0.5	0.0	0.0	0.4	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	0.2	0.0	0.2	0.2	0.2	0.2	0.0
	±0.4	0.0	0.4	0.4	0.4	0.4	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.0	0.0	0.2	0.0	0.2	0.0	0.0
	±0.0	0.0	0.4	0.0	0.4	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	0.4	0.2	0.0	0.0	0.0	0.2	0.0
	±0.9	0.4	0.0	0.0	0.0	0.4	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		0	Study Day		3	7	14
			1	2			
Basophils (%) - Males							
RL / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	±0.9	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	±0.9	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		0	Study Day		3	7	14
			1	2			
Basophils (%) - Males							
HS / 12	0.8	0.0	0.0	0.0	0.0	0.0	0.0
	$\pm 1.3$	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	$\pm 0.4$	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	$\pm 0.4$	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	$\pm 0.4$	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	$\pm 0.0$	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Lymphocytes (%) - Males							
RL / 16	69.4	60.6	53.8	57.4	59.4	59.8	48.6
	±4.2	12.7	15.5	18.7	15.3	13.4	11.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	65.4	57.6	36.8	53.8	58.2	59.4	59.2
	±4.5	5.3	11.7	19.0	17.3	10.1	11.9
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	55.6	63.0	50.6	56.4	57.0	59.0	48.2
	±10.7	17.0	16.1	13.3	15.5	12.3	19.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	72.6	47.2	41.8	56.2	50.0	48.6	37.3
	±14.0	20.8	12.1	9.0	13.0	17.1	20.7
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	57.0	57.6	55.0	58.8	62.8	50.2	44.5
	±17.4	9.1	14.2	8.4	20.2	9.3	27.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Lymphocytes (%) - Males							
HS / 12	74.6	54.6	54.6	54.6	60.0	53.4	47.4
	±8.5	7.0	17.5	12.9	21.5	17.6	18.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	67.8	45.0	50.6	54.6	50.8	50.4	52.8
	±13.8	21.7	12.1	11.7	9.0	7.7	17.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	64.0	56.4	56.8	51.6	58.2	61.8	52.2
	±4.0	20.2	7.0	11.9	20.4	16.8	14.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	74.4	54.6	56.2	60.2	58.2	58.0	43.7
	±6.2	16.1	6.6	5.8	10.9	12.4	17.2
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	67.0	63.6	60.2	48.6	45.6 <sup>b</sup>	45.8 <sup>b</sup>	42.8 <sup>b</sup>
	±17.7	7.6	9.7	15.0	12.2	8.9	8.7
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Monocytes (%) - Males							
RL / 16	1.0	0.6	0.8	0.6	0.4	1.2	0.8
	$\pm 1.0$	0.9	1.3	0.9	0.5	0.8	0.8
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.4	1.0	1.0	0.4	0.8	0.6	0.8
	$\pm 0.5$	1.2	1.2	0.5	1.3	0.9	0.8
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	1.6	1.0	1.0	1.0	0.4	0.6	0.8
	$\pm 0.5$	0.7	1.2	0.7	0.9	0.9	0.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.4	0.6	0.8	0.0	0.4	0.6	1.0
	$\pm 0.5$	1.3	0.8	0.0	0.5	0.9	0.8
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	1.6	0.6	1.0	0.4	0.8	1.4	1.0
	$\pm 1.1$	0.5	0.7	0.5	1.1	1.3	1.7
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.



**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Monocytes (%) - Males							
HS / 12	1.6	0.6	1.0	1.2	1.2	2.0	0.4
	$\pm 1.1$	0.9	1.4	1.3	0.8	2.0	0.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.6	0.8	1.2	1.6	0.8	1.0	1.2
	$\pm 0.5$	1.3	1.6	1.8	0.8	1.7	0.8
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	1.2	2.2	0.6	2.2	0.4	1.0	1.2
	$\pm 0.8$	3.3	0.9	1.8	0.9	1.0	1.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.6	0.2	0.0	0.2	1.0	0.8	2.0
	$\pm 0.5$	0.4	0.0	0.4	1.2	1.0	1.7
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	1.2	0.2	0.8	0.8	1.2	1.0	1.2
	$\pm 0.4$	0.4	0.8	0.4	0.8	1.2	0.8
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Atypical Lymphocytes (%) - Males							
RL / 16	3.0	1.6	3.2	1.2	1.4	2.2	2.2
	±1.9	1.8	2.2	0.8	1.3	2.3	1.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	3.2	1.6	3.8	2.2	0.4 <sup>c</sup>	1.2	0.4
	±3.6	1.8	1.9	2.2	0.9	0.8	0.9
	(5)	(5)	(4)	(5)	(5)	(5)	(5)
HSD / 12	4.0	2.4	2.0	1.6	1.4 <sup>c</sup>	0.2	1.0
	±1.6	3.4	1.2	1.5	1.1	0.4	1.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	1.8	1.2	0.8	1.6	0.6 <sup>c</sup>	2.0	0.0
	±0.8	1.8	0.8	2.1	0.9	1.6	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(4)
HS / 8	3.6	0.6	2.2	2.6 <sup>d</sup>	1.2 <sup>b</sup>	1.2	0.4
	±2.5	0.9	2.3	2.7	1.6	1.3	0.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		0	Study Day		3	7	14
			1	2			
Atypical Lymphocytes (%) - Males							
HS / 12	3.0	0.2	1.0	2.8 <sup>d</sup>	3.2 <sup>b</sup>	0.6	0.6
	±1.4	0.4	1.0	1.8	3.7	0.5	0.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.2	1.8	3.2	2.6 <sup>d</sup>	2.8 <sup>b</sup>	3.0	1.6
	±0.4	1.1	2.3	1.1	2.5	2.2	2.2
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 8	4.4	2.0	1.4	2.4 <sup>c</sup>	1.2	1.8	1.4
	±3.2	2.1	1.3	1.1	1.6	1.3	1.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	2.4	1.4	2.2	0.8 <sup>c</sup>	1.2	0.5	1.3
	±2.7	1.3	2.3	1.1	1.6	1.0	1.5
	(5)	(5)	(5)	(5)	(5)	(4)	(3)
D70 / 16	2.4	1.6	2.2	0.4 <sup>c</sup>	0.8	1.0	0.4
	±1.8	0.9	1.9	0.5	1.1	1.4	0.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Prothrombin Time (seconds) - Males							
RL / 16	6.60	6.82	6.60	5.64	6.38	7.60	7.40
	±0.36	0.65	0.76	0.86	1.30	1.60	1.10
	(3)	(5)	(5)	(5)	(4)	(5)	(5)
HSD / 8	6.00	7.76	6.20	5.84	6.60	8.98	6.78 <sup>c</sup>
	±0.61	2.19	1.71	1.77	1.06	2.46	0.63
	(4)	(5)	(5)	(5)	(3)	(5)	(5)
HSD / 12	6.60	5.90	5.90	6.28	7.85	8.72	6.64 <sup>c</sup>
	±0.63	0.60	0.35	0.58	1.98	3.24	1.15
	(4)	(5)	(4)	(5)	(4)	(5)	(5)
HSD / 16	6.75	7.34	6.06	5.40	5.43	7.06	5.70 <sup>c</sup>
	±0.85	1.38	0.94	0.80	1.95	1.17	3.27
	(4)	(5)	(5)	(5)	(3)	(5)	(4)
HS / 8	6.95	6.60	7.02	6.90	6.55	8.14	4.04 <sup>bd</sup>
	±1.00	1.62	1.54	1.56	3.16	2.04	2.37
	(4)	(5)	(5)	(5)	(4)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Prothrombin Time (seconds) - Males							
HS / 12	6.45	6.96	7.00	6.54	8.06	5.82	7.50 <sup>bd</sup>
	±0.42	0.35	1.03	1.97	2.98	1.77	1.57
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	6.74	5.68	6.10	5.42	6.53	6.30	4.68 <sup>bd</sup>
	±0.63	0.68	0.42	1.13	2.06	0.53	2.59
	(5)	(5)	(5)	(5)	(4)	(5)	(5)
D70 / 8	6.58	6.66	7.16	5.56	9.30	8.18	6.66 <sup>c</sup>
	±0.82	1.13	2.02	0.98	2.85	1.36	1.60
	(5)	(5)	(5)	(5)	(3)	(5)	(5)
D70 / 12	6.33	6.94	6.18	5.38	8.33	7.98	6.60 <sup>c</sup>
	±0.46	0.74	1.09	2.04	1.21	1.54	4.21
	(4)	(5)	(5)	(5)	(4)	(4)	(3)
D70 / 16	6.27	7.02	8.00	5.64	8.38	7.04	8.03 <sup>c</sup>
	±0.64	1.22	2.42	0.94	1.55	1.83	1.74
	(3)	(5)	(5)	(5)	(5)	(5)	(4)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Activated Partial Thromboplastin Time (seconds) - Males							
RL / 16	27.03	128.10	106.72	109.16	112.90	112.04	85.32
	±2.11	48.97	59.59	58.59	61.24	52.70	59.65
	(5)	(5)	(5)	(5)	(4)	(5)	(5)
HSD / 8	20.00	113.46	87.98	128.96	109.43	133.50	106.60
	±7.98	50.15	56.78	47.05	70.26	36.90	26.58
	(4)	(5)	(5)	(5)	(3)	(5)	(5)
HSD / 12	30.00	104.80	127.02	52.20	118.95	115.28	85.78
	±10.31	61.92	51.38	55.20	62.10	50.48	59.50
	(4)	(5)	(5)	(5)	(4)	(5)	(5)
HSD / 16	33.48	130.56	125.36	150.00	150.00	128.16	88.53
	±10.99	43.47	55.10	0.00	0.00	48.84	73.87
	(4)	(5)	(5)	(5)	(3)	(5)	(4)
HS / 8	47.08	90.35	128.80	131.72	93.58	124.78	20.94
	±57.64	69.81	47.40	40.88	65.44	56.39	17.58
	(5)	(4)	(5)	(5)	(4)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Activated Partial Thromboplastin Time (seconds) - Males							
HS / 12	41.20	125.20	150.00	126.18	136.76	97.98	77.34
	±17.11	55.45	0.00	53.26	29.61	61.74	67.48
	(4)	(5)	(5)	(5)	(5)	(4)	(5)
HS / 16	21.30	71.06	101.10	45.82	123.73	80.56	55.88
	±9.09	49.51	66.96	59.23	52.55	63.55	56.05
	(5)	(5)	(5)	(5)	(4)	(5)	(5)
D70 / 8	26.68	116.92	123.96	117.36	67.27	91.58	71.12
	±8.43	50.05	58.23	46.43	71.69	56.74	75.00
	(5)	(5)	(5)	(5)	(3)	(5)	(5)
D70 / 12	24.75	113.82	131.02	120.36	150.00	121.75	74.20
	±12.06	51.61	42.44	66.28	0.00	56.50	65.65
	(4)	(5)	(5)	(5)	(4)	(4)	(3)
D70 / 16	32.93	84.88	126.48	98.68	127.00	76.38	129.68
	±16.78	60.54	52.59	51.10	51.43	41.46	45.44
	(3)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Erythrocytes (x10 <sup>6</sup> /μl) - Females							
RL / 16	5.670	5.232	4.956	4.722 <sup>b</sup>	4.346 <sup>b</sup>	4.422 <sup>b</sup>	5.010
	±0.648	0.695	0.582	0.471	0.502	0.535	0.648
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	5.902	5.198	4.868	4.438 <sup>b</sup>	4.110 <sup>b</sup>	4.502 <sup>bh</sup>	4.418 <sup>bdgh</sup>
	±0.739	0.620	0.473	0.314	0.599	0.405	0.378
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	5.342	4.870	4.482	4.076 <sup>b</sup>	3.732 <sup>b</sup>	3.730 <sup>b</sup>	3.356 <sup>bd<sup>f</sup></sup>
	±0.361	0.450	0.429	0.437	0.373	0.344	0.328
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	5.320	4.786	4.510	4.134 <sup>b</sup>	3.842 <sup>b</sup>	3.456 <sup>b<sup>f</sup></sup>	3.430 <sup>bd<sup>f</sup></sup>
	±0.376	0.315	0.157	0.220	0.218	0.485	0.385
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	4.986	4.434	4.126	4.022	3.840	4.114 <sup>h</sup>	4.646 <sup>c<sup>egh</sup></sup>
	±1.086	1.081	0.810	0.652	0.456	0.172	0.282
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.



TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)	-7	0	1	2	3	7	14
Erythrocytes (x10 <sup>6</sup> /μl) - Females							
HS / 12	5.728 ±0.457 (4)	5.104 0.481 (5)	4.918 0.267 (5)	4.464 0.239 (5)	4.240 0.485 (5)	4.322 0.266 (5)	4.218 <sup>ce</sup> 1.078 (5)
HS / 16	5.834 ±0.080 (5)	5.144 0.420 (5)	4.736 0.435 (5)	4.170 0.686 (4)	3.868 <sup>b</sup> 0.976 (4)	4.053 <sup>bf</sup> 1.075 (4)	4.488 <sup>bce</sup> 0.432 (4)
D70 / 8	5.632 ±0.389 (5)	5.382 0.512 (5)	4.982 0.325 (5)	4.586 <sup>b</sup> 0.290 (5)	4.189 <sup>b</sup> 0.183 (5)	4.326 <sup>bh</sup> 0.352 (5)	4.098 <sup>bdqh</sup> 0.225 (5)
D70 / 12	5.718 ±0.461 (4)	5.384 0.691 (5)	4.782 <sup>b</sup> 0.476 (5)	4.376 <sup>b</sup> 0.255 (5)	4.094 <sup>b</sup> 0.237 (5)	3.910 <sup>b</sup> 0.262 (5)	3.910 <sup>bdf</sup> 0.311 (5)
D70 / 16	5.698 ±0.350 (5)	5.032 0.407 (5)	4.450 <sup>b</sup> 0.291 (5)	4.074 <sup>b</sup> 0.332 (5)	3.840 <sup>b</sup> 0.521 (5)	3.798 <sup>bf</sup> 0.308 (5)	3.536 <sup>bdf</sup> 0.347 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Hemoglobin (g/dl) - Females							
RL / 16	12.64	11.92	11.30	10.80 <sup>b</sup>	10.00 <sup>b</sup>	10.48 <sup>b</sup>	11.52
	±1.05	1.23	0.89	0.73	0.60	0.80	1.10
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	12.50	11.22	10.54	9.88	9.30	10.20 <sup>d</sup>	9.88 <sup>dgh</sup>
	±1.24	1.08	0.77	0.49	1.38	0.58	0.76
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	11.90	11.36	10.26	9.40 <sup>b</sup>	8.84 <sup>b</sup>	8.92 <sup>bd</sup>	7.94 <sup>bdf</sup>
	±0.77	1.34	0.96	0.96	0.79	0.82	0.87
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	12.40	11.22	10.60	9.80 <sup>b</sup>	9.20 <sup>b</sup>	8.38 <sup>bd</sup>	8.24 <sup>bdf</sup>
	±0.42	0.58	0.32	0.47	0.23	1.18	0.98
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	11.58	10.60	9.90	9.70	9.38	10.02 <sup>c</sup>	10.68 <sup>cegh</sup>
	±1.55	1.70	1.31	0.96	0.61	0.61	0.69
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Hemoglobin (g/dl) - Females							
HS / 12	12.70 ±0.56 (4)	11.60 0.39 (5)	11.28 0.97 (5)	10.26 0.79 (5)	9.88 0.62 (5)	10.24 <sup>c</sup> 0.52 (5)	9.88 <sup>ce</sup> 2.43 (5)
HS / 16	12.90 ±0.22 (5)	11.60 0.77 (5)	10.80 0.76 (5)	9.78 1.37 (4)	9.25 2.06 (4)	10.10 <sup>c</sup> 1.91 (4)	10.58 <sup>ce</sup> 0.46 (4)
D70 / 8	12.14 ±0.46 (5)	11.80 0.86 (5)	11.08 0.43 (5)	10.20 <sup>b</sup> 0.45 (5)	9.76 <sup>b</sup> 0.51 (5)	9.84 <sup>b</sup> 0.62 (5)	9.22 <sup>bdgh</sup> 0.30 (5)
D70 / 12	12.50 ±0.98 (4)	11.78 1.00 (5)	10.72 <sup>b</sup> 0.54 (5)	9.84 <sup>b</sup> 0.61 (5)	9.34 <sup>b</sup> 0.50 (5)	9.22 <sup>b</sup> 0.29 (5)	8.94 <sup>bd</sup> 0.55 (5)
D70 / 16	12.36 ±0.50 (5)	11.22 1.10 (5)	10.16 <sup>b</sup> 0.66 (5)	9.20 <sup>b</sup> 0.79 (5)	8.72 <sup>b</sup> 0.90 (5)	8.82 <sup>b</sup> 0.59 (5)	8.30 <sup>bd</sup> 0.75 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Hematocrit (%) - Females							
RL / 16	37.72 ±3.05 (5)	35.14 3.72 (5)	33.48 2.57 (5)	32.06 <sup>b</sup> 2.34 (5)	29.86 <sup>b</sup> 2.06 (5)	31.78 <sup>b</sup> 2.57 (5)	35.32 3.32 (5)
HSD / 8	37.70 ±3.88 (5)	33.80 3.26 (5)	32.22 2.02 (5)	29.38 1.18 (5)	27.74 3.67 (5)	30.78 <sup>dh</sup> 2.14 (5)	30.26 <sup>dgh</sup> 2.35 (5)
HSD / 12	35.50 ±2.02 (5)	33.06 2.55 (5)	30.66 2.76 (5)	28.24 <sup>b</sup> 2.64 (5)	26.08 <sup>b</sup> 2.45 (5)	26.56 <sup>bd</sup> 2.55 (5)	24.10 <sup>bdf</sup> 2.54 (5)
HSD / 16	36.73 ±1.97 (4)	33.54 2.17 (5)	31.64 0.66 (5)	29.14 <sup>b</sup> 1.31 (5)	27.32 <sup>b</sup> 1.05 (5)	24.88 <sup>bdf</sup> 3.52 (5)	24.90 <sup>bdf</sup> 3.28 (5)
HS / 8	34.64 ±5.22 (5)	32.20 4.64 (5)	30.26 3.49 (5)	29.50 2.06 (5)	28.58 1.66 (5)	31.08 <sup>ceh</sup> 2.13 (5)	33.20 <sup>cegh</sup> 2.42 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Hematocrit (%) - Females							
HS / 12	37.93 ±1.80 (4)	34.56 1.72 (5)	33.62 2.74 (5)	30.46 1.70 (5)	29.30 1.89 (5)	30.72 <sup>ce</sup> 1.77 (5)	29.76 <sup>ce</sup> 7.40 (5)
HS / 16	38.44 ±0.46 (5)	34.98 2.41 (5)	32.44 2.30 (5)	29.13 4.05 (4)	27.75 5.80 (4)	30.13 <sup>ce</sup> 4.87 (4)	32.35 <sup>ce</sup> 1.01 (4)
D70 / 8	36.24 ±1.77 (5)	35.36 2.77 (5)	32.92 1.33 (5)	30.48 <sup>b</sup> 1.50 (5)	29.30 <sup>b</sup> 2.05 (5)	29.88 <sup>b</sup> <sup>dh</sup> 1.79 (5)	28.06 <sup>b</sup> <sup>dgh</sup> 1.41 (5)
D70 / 12	37.43 ±2.74 (4)	35.70 3.17 (5)	31.88 <sup>b</sup> 1.84 (5)	29.36 <sup>b</sup> 1.76 (5)	28.02 <sup>b</sup> 1.37 (5)	27.74 <sup>bd</sup> 1.10 (5)	27.34 <sup>bd</sup> 2.29 (5)
D70 / 16	36.76 ±1.44 (5)	33.32 3.19 (5)	29.88 <sup>b</sup> 2.24 (5)	27.36 <sup>b</sup> 2.47 (5)	26.30 <sup>b</sup> 3.33 (5)	26.78 <sup>bd</sup> 1.81 (5)	25.34 <sup>bd</sup> 2.19 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>e</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>f</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 low-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>g</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 middle-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>h</sup> The mean of the 3 test solution groups for the dose level indicated is significantly different from the mean of the 3 high-dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Mean Corpuscular Volume (femtoliters) - Females							
RL / 16	66.76	67.40	67.86	68.06	69.00	72.20 <sup>b</sup>	70.76 <sup>b</sup>
	±2.98	2.67	2.97	2.56	3.44	3.50	3.17
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	63.98	65.14 <sup>c</sup>	66.36	66.30	67.64 <sup>b</sup>	68.48 <sup>b</sup>	68.58 <sup>b</sup>
	±1.53	1.73	2.42	2.42	3.53	2.60	1.70
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	66.48	67.94	68.40	69.40	69.56	71.20 <sup>b</sup>	71.82 <sup>b</sup>
	±0.88	1.39	1.01	1.17	1.12	1.29	0.81
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	69.13	70.10	70.16	70.56	71.18	72.00	72.48
	±1.62	0.82	1.01	1.02	1.66	2.35	2.69
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	70.56	74.88 <sup>d</sup>	74.82	74.52	75.06	75.56	71.48
	±6.51	11.49	11.00	9.26	7.92	4.45	2.93
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> Value is significantly different from the HS / 8 group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> Value is significantly different from the HSD / 8, D70 / 8, D70 / 12, and D70 / 16 groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Mean Corpuscular Volume (femtoliters) - Females							
HS / 12	66.35	67.96	68.32	68.28	69.42	71.18 <sup>b</sup>	70.64 <sup>b</sup>
	±3.06	3.36	3.79	3.19	4.21	2.82	2.29
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	65.90	68.08	68.66	70.05	72.55	76.65	72.38
	±0.75	1.75	2.01	2.79	5.11	11.50	4.81
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	64.40	65.80 <sup>c</sup>	66.18	66.54	67.34 <sup>b</sup>	69.18 <sup>b</sup>	68.54 <sup>b</sup>
	±1.74	1.67	1.96	1.52	2.14	1.66	1.35
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	65.48	66.52 <sup>c</sup>	66.94	67.18	68.54	71.06 <sup>b</sup>	69.94 <sup>b</sup>
	±1.35	2.73	3.00	3.14	3.04	2.01	1.30
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	64.62	66.16 <sup>c</sup>	67.10	67.18	68.56	70.66 <sup>b</sup>	71.72 <sup>b</sup>
	±2.52	2.54	2.16	2.65	2.49	2.88	3.29
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> Value is significantly different from the HS / 8 group at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Mean Corpuscular Hemoglobin (picograms) - Females							
RL / 16	22.36	22.88	22.88	22.92	23.14	23.80	23.08
	±0.96	0.82	1.04	1.08	1.51	1.19	1.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	21.22	21.62	21.70	22.30	22.64 <sup>b</sup>	22.72 <sup>b</sup>	22.38
	±0.63	0.68	0.98	0.47	0.98	0.88	0.60
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	22.28	23.30	22.92	23.08	23.70	23.90	23.66
	±0.79	1.15	0.43	0.30	0.74	0.22	0.62
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	23.40	23.48	23.52	23.72	24.00	24.24	23.98
	±1.01	0.60	0.99	0.53	0.83	0.87	0.72
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	23.70	24.54	24.34	24.38	24.62	24.34	22.98
	±2.85	3.18	2.46	2.06	2.07	0.94	0.58
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.



TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Mean Corpuscular Hemoglobin (picograms) - Females							
HS / 12	22.25 ±1.70 (4)	22.84 1.61 (5)	22.94 1.55 (5)	23.00 1.52 (5)	23.42 1.71 (5)	23.72 1.15 (5)	23.52 1.11 (5)
HS / 16	22.12 ±0.40 (5)	22.56 0.65 (5)	22.84 0.91 (5)	23.53 0.82 (4)	24.08 1.18 (4)	25.48 2.89 (4)	23.68 1.49 (4)
D70 / 8	21.60 ±0.95 (5)	21.96 1.02 (5)	22.28 0.96 (5)	22.26 0.72 (5)	22.46 0.73 (5)	22.78 0.51 (5)	22.52 0.53 (5)
D70 / 12	21.88 ±0.41 (4)	21.98 1.19 (5)	22.50 1.12 (5)	22.48 0.98 (5)	22.86 1.17 (5)	23.64 <sup>b</sup> 1.04 (5)	22.88 0.59 (5)
D70 / 16	21.72 ±0.87 (5)	22.28 1.07 (5)	22.84 0.70 (5)	23.30 2.26 (5)	22.80 1.04 (5)	23.28 1.04 (5)	23.50 1.02 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Mean Corpuscular Hemoglobin Concentration (g/dl) - Females							
RL / 16	33.48	33.94	33.74	33.70	33.50	33.00	32.60
	±0.35	0.76	0.68	0.74	0.59	0.50	0.87
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	33.14	33.18	32.68	33.64	33.48	33.16	32.64
	±0.49	0.44	0.66	0.85	1.03	0.67	0.30
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	33.56	34.30	33.46	33.28	34.08	33.60	32.96
	±1.13	1.99	0.23	0.32	0.59	0.37	0.73
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	33.80	33.46	33.52	33.62	33.68	33.70	33.14
	±0.68	0.74	1.06	0.72	0.54	0.63	0.63
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	33.50	32.85	32.58	32.82	32.82	32.24	32.18
	±0.99	0.89	1.59	1.17	0.76	1.02	0.58
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Mean Corpuscular Hemoglobin Concentration (g/dl) - Females							
HS / 12	33.50	33.60	33.54	33.66	33.74	33.34	33.22
	$\pm 1.21$	0.74	0.48	0.83	0.69	0.68	0.53
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	33.58	33.16	33.28	33.55	33.23	33.43	32.65
	$\pm 0.29$	0.48	0.58	0.34	0.78	1.45	0.79
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	33.50	33.38	33.64	33.48	33.34	32.92	32.88
	$\pm 0.58$	0.72	0.54	0.54	0.93	0.40	0.70
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	33.38	33.00	33.62	33.52	33.34	33.27	32.76
	$\pm 0.35$	0.64	0.57	0.77	0.67	0.74	0.76
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	33.62	33.66	34.02	33.64	33.22	32.94	32.74
	$\pm 0.31$	0.79	0.44	0.55	0.89	0.21	0.92
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		0	Study Day		3	7	14
			1	2			
Platelets ( $\times 10^3/\mu\text{l}$ ) - Females							
RL / 16	357.4	383.6	362.4	351.2	372.0	457.2	389.2
	$\pm 101.3$	70.4	44.5	56.0	91.8	126.0	192.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	308.4	364.6	389.2	400.2	362.4	379.8	301.0
	$\pm 79.3$	95.6	145.2	148.1	156.7	145.6	104.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	415.4	399.0	419.3	424.0	427.2	339.2	424.6
	$\pm 108.1$	41.0	22.8	48.7	80.3	88.3	198.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	344.0	342.2	350.0	347.4	338.6	283.2	256.0
	$\pm 115.7$	65.6	56.8	31.9	54.3	115.7	89.7
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	351.8	387.0	340.2	338.4	356.6	369.4	448.6
	$\pm 221.6$	102.4	90.2	126.7	140.9	178.7	144.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Platelets ( $\times 10^3/\mu\text{l}$ ) - Females							
HS / 12	284.5	357.0	375.6	392.8	403.8	357.0	281.4
	$\pm 148.5$	106.5	116.2	127.7	162.4	108.8	112.4
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	375.4	413.2	424.8	385.5	408.8	505.3	379.3
	$\pm 46.3$	87.1	80.8	49.2	43.9	108.2	56.9
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	362.6	382.4	395.0	391.6	396.8	322.4	329.6
	$\pm 41.6$	63.3	81.5	84.7	113.0	61.1	83.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	350.8	360.4	355.0	384.0	415.8	362.6	262.6
	$\pm 29.1$	39.5	52.7	40.4	78.4	102.8	122.8
	(4)	(5)	(5)	(4)	(5)	(5)	(5)
D70 / 16	322.4	286.8	313.6	309.4	342.2	320.0	255.4
	$\pm 158.1$	118.6	99.7	62.4	87.0	149.9	41.8
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Reticulocytes (%) - Females							
RL / 16	6.98	7.92	7.94	9.14	10.12 <sup>b</sup>	10.14 <sup>b</sup>	10.12 <sup>b</sup>
	±1.31	1.80	1.60	1.14	1.09	0.62	0.80
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 3	7.70	9.14	7.50	9.16	9.54	10.12	10.22
	±1.67	1.35	2.06	1.31	1.52	1.08	1.01
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	6.82	8.26	9.06	8.30	9.14	9.50	9.64
	±1.61	1.36	0.53	1.76	1.77	0.72	0.71
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	7.13	8.90	8.24	8.92	10.08	9.02	9.56
	±0.46	1.01	1.54	1.34	2.07	2.45	0.55
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	7.86	9.66	9.54	10.30	10.00	10.42	10.70
	±1.51	1.64	1.66	0.83	1.25	0.99	1.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Reticulocytes (%) - Females							
HS / 12	7.28	8.88	8.96	8.36	9.44	9.98	9.86
	±1.37	1.75	0.80	1.32	0.98	0.59	0.23
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	8.38	8.34	9.38	9.50	9.98	10.18	10.35
	±2.12	1.50	0.89	1.68	1.32	0.77	0.93
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	7.90	8.84	8.86	9.28	10.26	9.66	9.80
	±1.15	1.85	1.14	1.60	0.77	0.68	0.73
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	8.38	8.52	8.64	9.24	9.78	10.12	10.10
	±1.65	1.63	1.02	1.82	0.96	0.84	0.43
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	6.92	8.78	7.56	8.74	10.02	9.86	9.80
	±1.25	1.82	1.59	2.32	0.73	0.58	0.88
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	Study Day 123714					
Nucleated Red Blood Cells (#/100 WBC) - Females							
RL / 16	0.2 ±0.4 (5)	0.0 0.0 (5)	0.0 0.0 (5)	0.0 0.0 (5)	0.8 1.1 (5)	0.4 0.5 (5)	0.0 0.0 (5)
HSD / 8	0.2 ±0.4 (5)	1.0 1.2 (5)	0.2 <sup>c</sup> 0.4 (5)	0.0 0.0 (5)	0.0 0.0 (5)	0.0 0.0 (5)	0.0 0.0 (5)
HSD / 12	0.8 ±1.1 (5)	0.6 1.3 (5)	0.8 <sup>c</sup> 1.8 (5)	0.8 1.3 (5)	0.2 0.4 (5)	0.0 0.0 (5)	0.0 0.0 (5)
HSD / 16	0.8 ±1.5 (5)	0.2 0.4 (5)	0.2 <sup>c</sup> 0.4 (5)	0.0 0.0 (5)	0.0 0.0 (5)	0.0 0.0 (5)	0.0 0.0 (5)
HS / 8	1.0 ±2.2 (5)	4.4 8.8 (5)	4.4 <sup>bd</sup> 7.7 (5)	2.0 2.8 (5)	0.0 0.0 (5)	1.2 1.8 (5)	0.0 0.0 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.



**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Nucleated Red Blood Cells (#/100 WBC) - Females							
HS / 12	0.0 ±0.0 (4)	1.0 2.2 (5)	1.4 <sup>bd</sup> 1.5 (5)	0.0 0.0 (5)	1.0 2.2 (5)	0.6 1.3 (5)	0.0 0.0 (5)
HS / 16	0.0 ±0.0 (5)	1.6 2.2 (5)	4.6 <sup>bd</sup> 8.6 (5)	2.8 3.6 (4)	0.3 0.5 (4)	1.3 2.5 (4)	0.0 0.0 (4)
D70 / 8	1.0 ±1.4 (4)	0.2 0.4 (5)	0.2 <sup>c</sup> 0.4 (5)	0.8 1.3 (5)	1.6 1.8 (5)	0.0 0.0 (5)	0.0 0.0 (5)
D70 / 12	1.0 ±1.4 (5)	0.0 0.0 (5)	0.4 <sup>c</sup> 0.9 (5)	0.2 0.4 (5)	0.2 0.4 (5)	0.2 0.4 (5)	0.0 0.0 (5)
D70 / 16	0.2 ±0.4 (5)	0.8 1.8 (5)	1.0 <sup>c</sup> 2.2 (5)	0.0 0.0 (5)	1.4 1.9 (5)	0.0 0.0 (5)	0.2 0.4 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HSD dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	0	Study Day					
		1	2	3	7	14	
Total Leukocyte Count ( $\times 10^3/\mu\text{l}$ ) - Females							
RL / 16	9.52	9.62	10.20	10.58	10.92	9.78	6.16 <sup>b</sup>
	$\pm 1.37$	2.78	1.94	0.62	2.80	0.79	1.78
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	8.50	10.08	10.06	9.80	8.70	7.54	6.38
	$\pm 1.29$	1.32	1.22	0.66	3.08	1.42	1.16
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	8.00	9.10	9.24	9.70	8.62	6.54	5.08 <sup>b</sup>
	$\pm 1.35$	1.75	1.98	3.03	3.58	1.10	1.18
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	8.70	9.18	9.62	8.30	7.48	5.84 <sup>b</sup>	4.64 <sup>b</sup>
	$\pm 1.79$	2.29	3.61	2.85	2.12	2.69	0.61
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	8.26	11.46	9.64	9.46	9.48	7.82	6.24
	$\pm 3.83$	7.07	3.09	2.52	2.50	2.23	2.22
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at  $p = 0.05$  using the Dunnett's test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Total Leukocyte Count (x10 <sup>3</sup> /μl) - Females							
HS / 12	7.35	9.36	9.96	10.40	10.26	9.20	5.98 <sup>b</sup>
	±2.68	2.66	1.64	1.37	1.77	1.79	1.70
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	8.88	10.62	10.28	11.50	11.83	9.53	5.70
	±2.73	2.13	2.66	2.47	4.18	5.17	1.04
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	7.34	8.10	8.42	8.26	8.62	7.36	5.46 <sup>b</sup>
	±1.24	1.18	1.27	1.83	0.24	1.56	0.96
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	8.45	9.26	9.22	8.88	9.96	7.32 <sup>b</sup>	5.42 <sup>b</sup>
	±2.33	1.35	1.29	1.82	1.08	1.82	2.31
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	9.64	10.10	9.84	9.28	8.92	7.42 <sup>b</sup>	5.68 <sup>b</sup>
	±2.99	1.41	0.80	1.98	1.25	0.63	1.05
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at  $p = 0.05$  using the Dunnett's test.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		0	Study Day		3	7	14
			1	2			
Heterophils (%) - Females							
RL / 16	30.6	38.0	37.4	30.2	36.2	41.6	33.2
	±13.5	15.2	6.3	9.9	14.5	8.3	9.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	37.4	40.2	53.8	39.4	45.0	42.8	39.8
	±19.0	13.3	21.2	10.5	20.0	12.5	7.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	26.8	36.6	42.8	37.6	39.8	37.0	48.6
	±7.8	15.6	12.2	11.3	8.7	5.4	13.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	29.5	34.4	41.6	31.8	44.6	37.0	45.8
	±15.7	11.4	13.3	6.0	9.7	4.8	3.1
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	35.0	39.2	33.8	37.0	50.0	39.8	46.2
	±10.1	4.8	6.1	11.7	17.7	9.9	15.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Heterophils (%) - Females							
HS / 12	22.8	32.6	43.2	33.2	35.8	30.2	35.8
	±11.1	6.3	15.4	13.8	20.4	11.8	18.7
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	44.0	36.6	39.8	41.3	37.3	32.0	40.8
	±11.3	8.4	4.1	8.8	10.2	6.2	9.1
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	29.4	43.2	45.4	43.6	45.0	33.6	38.0
	±10.5	7.2	5.7	5.9	7.3	10.0	14.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	27.0	40.6	37.0	40.0	36.8	39.4	31.6
	±6.1	11.6	8.7	5.8	11.6	17.6	11.6
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	32.6	36.4	41.8	37.6	43.0	40.6	43.2
	±23.0	11.0	23.4	15.4	17.0	15.6	12.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Immature Neutrophils (%) - Females							
RL / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7	Study Day					
	0	1	2	3	7	14
Immature Neutrophils (%) - Females						
HS / 12	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(4)	(4)	(4)
D70 / 8	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)
D70 / 16	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Eosinophils (%) - Females							
RJ, / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	±0.0	0.9	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.



**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Eosinophils (%) - Females							
HS / 12	0.3	0.0	0.0	0.0	0.0	0.0	0.0
	±0.5	0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	±0.0	0.9	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Basophils (%) - Females							
RL / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Basophils (%) - Females							
HS / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	±0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Lymphocytes (%) - Females							
RL / 16	66.4	58.8	60.2	65.4	60.8	51.8	62.4
	±16.0	15.7	8.9	12.3	15.5	9.8	10.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	58.8	57.8	42.8	58.8	52.8	54.4	55.4
	±17.7	12.3	20.5	8.8	20.1	13.2	6.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	69.8	58.2	52.6	60.0	56.6	61.6	48.0
	±9.1	15.8	13.5	11.2	9.5	5.6	12.3
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	69.0	55.2	55.8	64.8	52.8	60.4	51.8
	±17.4	19.5	12.3	5.8	8.6	4.8	1.3
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	64.4	57.0	64.2	58.2	47.2	56.2	48.0
	±10.1	7.6	6.5	11.5	16.3	9.7	13.6
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Lymphocytes (%) - Females							
HS / 12	74.5	63.4	54.2	62.6	60.6	65.8	60.8
	±10.7	4.7	14.9	14.2	18.5	11.2	18.5
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	52.8	59.8	56.2	55.3	60.0	65.0	54.8
	±14.0	10.6	3.6	9.1	9.9	7.5	10.9
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	67.2	52.2	50.4	53.6	51.2	62.8	59.6
	±9.9	8.3	4.9	5.9	7.0	10.8	15.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	69.5	55.6	58.0	57.0	60.8	56.8	64.4
	±7.7	13.3	7.1	5.9	11.2	19.1	13.8
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	65.6	61.4	56.4	59.8	53.6	56.2	53.4
	±21.9	12.3	24.6	16.5	16.8	15.4	12.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7		Study Day					
		0	1	2	3	7	14
Monocytes (%) - Females							
RL / 16	1.8	1.6	1.6	2.6	2.0	2.8	0.8
	$\pm 1.5$	1.1	2.1	1.5	1.9	1.9	0.4
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	0.8	0.8	2.4	0.8	1.6	1.6	1.2
	$\pm 0.8$	0.8	1.5	1.3	0.5	2.1	1.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	1.8	1.0	2.4	1.4	2.2	0.8	1.4
	$\pm 1.1$	1.0	1.5	0.5	1.1	0.8	1.1
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	0.5	2.2	1.0	1.2	1.2	1.2	0.6
	$\pm 0.6$	1.5	1.0	0.8	0.8	0.8	0.5
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	0.6	2.2	0.6	2.2	1.2	0.8 <sup>b</sup>	2.4
	$\pm 0.5$	2.3	0.9	0.8	1.1	0.4	1.9
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at  $p = 0.05$  using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Monocytes (%) - Females							
HS / 12	1.0	1.8	1.4	1.8	1.0	0.8 <sup>b</sup>	0.8
	±0.8	1.5	0.5	2.2	0.7	0.8	0.8
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	1.2	2.2	1.2	2.5	1.5	0.5 <sup>b</sup>	1.3
	±0.8	1.6	0.8	2.1	1.3	1.0	1.5
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	0.4	2.0	1.8	0.8	1.6	1.8 <sup>c</sup>	0.6
	±0.9	1.2	1.5	0.8	1.8	0.4	0.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	1.3	1.4	1.6	0.8	1.0	2.2 <sup>c</sup>	2.0
	±1.9	0.9	0.9	0.8	0.7	1.9	1.9
	(4)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	0.4	1.4	0.8	1.6	2.2	2.0 <sup>c</sup>	1.8
	±0.5	1.9	0.8	1.5	1.3	0.7	1.5
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 D70 dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>c</sup> The mean of the 3 dose groups for the solution indicated is significantly different from the mean of the 3 HS dose groups at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Atypical Lymphocytes (%) - Females							
RL / 16	1.2 ±2.7 (5)	1.6 0.9 (5)	0.8 1.8 (5)	1.8 1.3 (5)	1.0 1.2 (5)	3.8 2.4 (5)	3.6 1.7 (5)
HSD / 8	3.0 ±3.0 (5)	1.2 1.6 (5)	1.0 1.0 (5)	1.0 1.4 (5)	0.6 0.5 (5)	1.2 1.3 (5)	3.6 <sup>b</sup> 2.2 (5)
HSD / 12	1.6 ±1.5 (5)	3.8 3.6 (5)	2.2 2.2 (5)	1.0 1.0 (5)	1.4 1.5 (5)	0.6 <sup>d</sup> 1.3 (5)	2.0 1.4 (5)
HSD / 16	1.0 ±1.4 (4)	2.2 1.1 (5)	1.6 1.8 (5)	2.2 1.5 (5)	1.4 1.3 (5)	1.6 0.9 (5)	1.8 1.9 (5)
HS / 8	0.0 ±0.0 (5)	1.6 2.3 (5)	1.4 1.3 (5)	2.6 1.5 (5)	1.6 1.3 (5)	3.2 3.5 (5)	3.2 3.6 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

<sup>d</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HS dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.



TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day) -7	Study Day						
	0	1	2	3	7	14	
Atypical Lymphocytes (%) - Females							
HS / 12	1.5 ±1.0 (4)	2.2 1.5 (5)	1.2 1.3 (5)	2.4 1.9 (5)	2.6 2.3 (5)	3.2 <sup>c</sup> 2.4 (5)	2.6 1.9 (5)
HS / 16	2.0 ±2.5 (5)	1.4 1.1 (5)	2.8 1.1 (5)	1.0 0.8 (4)	1.3 1.9 (4)	2.0 1.6 (4)	3.3 3.6 (4)
D70 / 8	3.0 ±1.4 (5)	2.2 1.9 (5)	2.4 1.7 (5)	2.0 2.3 (5)	2.2 1.9 (5)	1.8 1.5 (5)	1.8 1.1 (5)
D70 / 12	2.3 ±1.9 (4)	2.4 1.3 (5)	3.4 2.9 (5)	2.2 1.6 (5)	1.4 0.9 (5)	1.2 1.3 (5)	2.0 2.1 (5)
D70 / 16	1.4 ±1.1 (5)	0.8 0.8 (5)	1.0 1.2 (5)	1.0 1.4 (5)	1.2 0.8 (5)	1.2 1.3 (5)	1.6 0.5 (5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

<sup>b</sup> Value is significantly different from the group baseline (Day 0) at p = 0.05 using the Dunnett's test.

<sup>c</sup> The mean of the dose and solution group indicated is significantly different from the mean of the respective HSD dose group at p = 0.05 using the Student-Newman-Keuls multiple range test.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	0	Study Day					
		1	2	3	7	14	
Prothrombin Time (seconds) - Females							
RL / 16	8.20	10.00	8.76	8.76	10.78	10.40	7.73
	±1.21	2.26	1.26	4.11	5.16	2.73	1.77
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	7.72	7.94	7.76	8.60	8.52	7.30	9.74
	±1.10	0.91	1.66	1.10	1.15	1.43	2.82
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	6.70	9.28	9.88	7.28	9.38	11.85	9.58
	±2.59	0.80	2.36	1.83	0.62	4.08	2.85
	(5)	(5)	(5)	(5)	(4)	(4)	(5)
HSD / 16	8.04	8.86	9.38	9.70	9.70	10.40	9.32
	±0.80	0.70	1.10	1.01	2.49	4.49	1.91
	(5)	(5)	(4)	(4)	(5)	(5)	(5)
HS / 8	7.90	8.44	8.28	7.82	8.64	8.88	9.86
	±1.20	1.14	1.80	1.12	7.14	3.24	4.75
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean  $\pm$  the standard deviation with the number of animals, n, in parentheses.

TABLE 6 (cont.)  
Hematology Summary<sup>a</sup>

Group/Dose (ml/kg/day)-7	Study Day						
	0	1	2	3	7	14	
Prothrombin Time (seconds) - Females							
HS / 12	5.37 ±3.54 (3)	8.50 1.10 (5)	10.44 2.18 (5)	8.24 1.79 (5)	11.80 3.51 (5)	8.16 2.58 (5)	7.46 3.67 (5)
HS / 16	7.33 ±0.79 (4)	9.04 0.96 (5)	8.62 0.85 (5)	8.58 1.05 (4)	9.95 0.98 (4)	11.33 7.30 (4)	9.58 2.96 (4)
D70 / 8	7.92 ±1.73 (5)	8.62 1.58 (5)	8.78 1.75 (5)	9.36 2.11 (5)	10.24 3.11 (5)	11.86 5.31 (5)	7.56 0.73 (5)
D70 / 12	6.45 ±3.08 (4)	10.14 1.83 (5)	10.64 3.51 (5)	9.82 3.08 (5)	11.46 3.59 (5)	11.12 2.07 (5)	13.58 10.86 (5)
D70 / 16	5.43 ±2.57 (4)	9.74 1.04 (5)	9.32 1.55 (5)	10.56 5.23 (5)	13.34 4.70 (5)	12.26 4.94 (5)	10.58 2.98 (4)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day)-7	0	Study Day		3	7	14	
		1	2				
Activated Partial Thromboplastin Time (seconds) - Females							
RL / 16	28.80	138.40	121.82	122.60	121.36	105.74	51.52
	±9.20	25.94	63.01	61.27	64.04	61.91	55.41
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 8	26.68	101.76	84.46	128.30	110.60	80.46	75.86
	±4.00	65.84	60.53	48.52	54.16	66.53	67.69
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 12	78.22	150.00	150.00	150.00	150.00	150.00	118.46
	±65.86	0.00	0.00	0.00	0.00	0.00	44.41
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HSD / 16	31.26	142.02	136.78	150.00	100.12	124.32	127.94
	±8.54	17.84	29.56	0.00	68.30	57.42	49.33
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 8	52.06	74.5	111.12	120.72	95.40	114.02	62.96
	±54.94	69.69	54.34	65.47	75.15	52.43	50.46
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

**TABLE 6 (cont.)**  
**Hematology Summary<sup>a</sup>**

Group/Dose (ml/kg/day) -7		Study Day					
		0	1	2	3	7	14
Activated Partial Thromboplastin Time (seconds) - Females							
HS / 12	55.60	150.00	150.00	150.00	150.00	108.02	79.76
	±64.99	0.00	0.00	0.00	0.00	59.26	68.65
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
HS / 16	103.20	134.42	150.00	150.00	150.00	117.80	63.33
	±64.43	34.84	0.00	0.00	0.00	64.40	61.37
	(5)	(5)	(5)	(4)	(4)	(4)	(4)
D70 / 8	26.84	126.44	150.00	150.00	128.20	150.00	104.92
	±5.35	52.68	0.00	0.00	48.75	0.00	61.73
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 12	55.85	150.00	150.00	124.64	150.00	150.00	126.32
	±65.06	0.00	0.00	56.71	0.00	0.00	52.95
	(5)	(5)	(5)	(5)	(5)	(5)	(5)
D70 / 16	74.70	125.16	150.00	102.16	150.00	123.82	127.12
	±69.36	55.54	0.00	65.51	0.00	58.54	51.16
	(5)	(5)	(5)	(5)	(5)	(5)	(5)

<sup>a</sup> Data are presented as the mean ± the standard deviation with the number of animals, n, in parentheses.

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## Appendix A: CHEMICAL DATA



Pharmacia

CERTIFICATE OF ANALYSIS 1988-06-27

6 % Dextran 70 in 7,5 %  
Sodium Chloride Injection

Charge No. CD 59331

Identification	passed test
Inherent viscosity	26 ml/g
Absorbance	0,009
pH	5,2
Heavy metals	< 5 ppm

## Assay for

- Sodium chloride	75 g/1000 ml
- Dextran 70	59 g/1000 ml

Particulate matter	passed test
Sterility	passed test
Pyrogens	passed test

Released for clinical trials.

Pharmacia AB  
Analytical Chemistry Department

Tord Jonsson

Postal address	Telephone	Country	Fax	Telex
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S. Sweden	Int +46 18 16 30 06	uppsala	pharmab s	Int +46 18 15 41 35

Appendix A (cont.): CHEMICAL DATA



Pharmacia

CERTIFICATE OF ANALYSIS 1988-06-27

Product

7,5 % Sodium Chloride

Charge No. OD 59339

pH	6,2
Heavy metals	< 5 ppm
Assay for	
- Sodium chloride	71 g/1000 ml
Particulate matter	passed test
Sterility	passed test
Pyrogens	passed test

Released for clinical trials.

Pharmacia AB  
Analytical Chemistry Department

Signature

*Tord Jonsson*

Tord Jonsson

Pharmacia AB	Telephone	Country	Fax	Telex
S-751 82 Umeå	Nat 018-16 30 00	pharmacia	78027	Nat 018-15 41 36
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## Appendix A (cont.): CHEMICAL DATA



Pharmacia

Certificate of Analysis

Name MACRODEX 60 mg/ml in Normal Saline

Item No.: 10-4510-00

Charge No.: 00 59340

Test	Result	Tolerance limit	Control method
Inherent viscosity ml/g	26	25 - 28	03700
Colour	0.01	Max. 0.04	03811
pH	4.9	4.0 - 7.0	USP XX p. 968
Heavy metals ppm	< 5	Max. 5	USP XX p. 909
Assay for			
- sodium chloride g/1000 ml	8.86	8.10 - 9.90	02355
- dextran 70 g/1000 ml	59	54 - 66	02356
Sterility	Passed test	To pass test	02885
Pyrogens	Passed test	To pass test	02983

The identity is assured through strict adherence to established GMP rules throughout the manufacturing procedures.

Released for sale: 1988-04-19

fM09

Pharmacia AB

Quality Control Department

  
Jan Mazur

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## Appendix A (cont.): CHEMICAL DATA



Pharmacia

CERTIFICATE OF ANALYSIS 1988-06-27

Product

Lactated Ringer's Injection

Charge No. 00 59336

Identification

passed test

pH

5,8

Heavy metals

&lt; 5 ppm

Assay for

- Sodium

121 mmol/1000 ml

- Potassium

3,72 mmol/1000 ml

- Calcium

1,32 mmol/1000 ml

- Chloride

104 mmol/1000 ml

- Lactate

26,3 mmol/1000 ml

Particulate matter

passed test

Sterility

passed test

Pyrogens

passed test

Released for clinical trials.

Pharmacia AB

Analytical Chemistry Department

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**Appendix B: ANIMAL DATA**

**Species:** *Oryctolagus cuniculus*

**Strain:** New Zealand White

**Source:** Hazleton Research Products, Inc.  
P.O. Box 7200  
Denver, PA 17517

**Sex:** Male and female

**Date of birth:** Males 9 Dec 88 and 8 Jan 89  
Females 20 Jan 89.

**Method of randomization:** Weight bias, stratified animal allocation (XYBION Medical Systems PATH/TOX AESLCT Program)

**Animals in each group:** 5 males and 5 females

**Condition of animals at start of study:** Normal

**Body weight range at dosing:** Males 2.81 - 4.31 kg  
Females 2.81 - 3.62 kg

**Identification procedures:** Supplier ear tattoo with corresponding LAIR animal number

**Pretest conditioning:** Quarantine/acclimation 30 March to 25 April, 4 May to 17 May 1989 and 11 May to 30 May 1989, Phase I and II, respectively

**Justification:** The laboratory rabbit is a standard laboratory model for subacute toxicity studies and is accepted by all regulatory agencies.

**Appendix C: HISTORICAL LISTING OF STUDY EVENTS**

Phase I

<u>Date</u>	<u>Event</u>
30 Mar, 4 May 89	Phase I animals arrived. They were sexed, observed for illness, and caged in the GLP Suite. Sixty animals were assigned to the study.
31 Mar; 4, 10, 17 24 25 Apr; 1, 2, 3, 9, 10, 15, 17, 24, 31 May 89	Phase I animals were weighed.
31 Mar-31 May 89	Phase I animals were observed twice daily.
10, 17, 24 Apr-9 May, 15-23 May, 30 May 89	Water consumption was monitored for Phase I animals.
17 April 89	Phase I animals were randomized into groups.
18, 19, 25, 26, 27, 28, 29 Apr; 2, 3, 4, 5, 6, 9, 10, 16-20, 24, 31 May 89	Blood was collected for hematology and clinical chemistry analyses, Phase I animals.
19-21, 25-28 Apr; 15 May 89	Catheters were implanted into Phase I animals.
25 Apr; 1, 3, 8, 9, 15, 16, 30 May 89	Ophthalmic examinations were performed for Phase I animals.
25 Apr-31 May 89	Phase I animals were dosed beginning at approximately 0830 hours. Observations were conducted before and 1 hour after dosing, and in the pm.
9, 10, 16, 17, 31 May 89	Phase I animals were observed and delivered to the Necropsy Suite for euthanasia and necropsy.

# Appendix C (cont.): HISTORICAL LISTING OF STUDY EVENTS

## Phase II

<u>Date</u>	<u>Event</u>
11 May 89	Phase II animals arrived. They were sexed, observed for illness, and caged in the GLP Suite. Fifty-five animals were assigned to the study.
12 May-20 Jun 89	Phase II animals were observed twice daily.
12,15,22,29,30 May; 5-7,13-15,20,21 Jun 89	Phase II animals were weighed.
22 May 89	Phase II animals were randomized into dose groups.
16,22,29,30,31 May; 1-13, 19,20 Jun 89	Water consumption was monitored for Phase II animals.
23-26,30,31 May; 1,5 Jun 89	Catheters were implanted into Phase II animals.
23,24,30,31 May; 1-3,6-10,13,14,20, 21 Jun 89	Blood was collected for hematology and clinical chemistry analyses, Phase II animals.
30 May;5,6,12,13, 19,20 Jun 89	Ophthalmic examinations were performed for Phase II animals.
30 May-20 Jun 89	Phase II animals were dosed beginning at approximately 0830 hours. Observations were conducted before and 1 hr after dosing, and in the pm.
13-14,20-21 Jun 89	Phase II animals were observed and delivered to the Necropsy Suite for euthanasia and necropsy.

## Appendix D: INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH      Raw Data Listings of Clinical Signs Without Masses  
 DIV OF RES SUPP, PATH SERV GP      Study Number: 88010M  
 PRESIDIO OF SAN FRANCISCO, CA 94129      Data Listing by Animal  
 RABBIT/NEW ZEALAND WHITE      Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data Was Entered	Study Day/time Oper	Clinical signs / Comments
1	89F00126 M/ 1/1	07-Jun-89 08:08	1 / 10:01	9 normal/no significant signs
		07-Jun-89 13:36	1 / 11:02	9 inactive, moderate disoriented, moderate increased respiratory depth, slight
		07-Jun-89 14:04	1 / 15:07	9 inactive, moderate disoriented, moderate red eyes, severe squinting, severe uncoordinated, moderate wide-legged stance, moderate, both disoriented, slight increased respiration, slight red eyes, slight uncoordinated, slight wide-legged stance, slight disoriented, moderate increased respiration, slight red eyes, slight uncoordinated, slight wide-legged stance, moderate inactive, moderate disoriented, slight wide-legged stance, slight hunched posture, slight disoriented, slight wide-legged stance, slight hunched posture, slight inactive, moderate increased respiration, slight uncoordinated, slight inactive, moderate disoriented, moderate increased respiration, slight red eyes, moderate uncoordinated, moderate
		08-Jun-89 07:51	2 / 08:10	9
		08-Jun-89 08:06	2 / 11:15	9
		08-Jun-89 08:34	2 / 14:36	9
		08-Jun-89 09:04	3 / 07:34	9
		08-Jun-89 09:45	3 / 10:53	9



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Date Listing by Animal

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments
1	89F00126 M/ 1/1	08-Jun-89 09:45	3 / 10:53	9	wide-legged stance, moderate hunched posture, moderate inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight increased respiration, slight excessive thirst, moderate excessive thirst, moderate inactive, slight
		08-Jun-89 09:54	3 / 14:15	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:02	4 / 07:13	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:10	4 / 10:36	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:19	4 / 14:30	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:23	5 / 08:05	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:27	5 / 12:05	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:33	5 / 16:39	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:37	6 / 07:48	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:40	6 / 10:22	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 10:44	6 / 15:39	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 13:43	7 / 07:32	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 13:47	7 / 09:57	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		08-Jun-89 13:57	7 / 15:11	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		09-Jun-89 07:42	8 / 08:21	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight
		09-Jun-89 07:50	8 / 11:10	9	inactive, slight increased respiration, slight hunched posture, slight disoriented, slight hunched posture, slight wide-legged stance, slight disoriented, slight hunched posture, slight wide-legged stance, slight hyperactive, slight aggressive, moderate wide-legged stance, slight inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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SUB-ACUTE/-----

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time	Oper Data was taken	Clinical signs / Comments
1	B9F00126	M/ 1/1				
		09-Jun-89	07:50	8 / 11:10	9	hunched posture, moderate
		09-Jun-89	08:04	8 / 14:15	9	uncoordinated, slight tremors, slight disoriented, slight hunched posture, moderate inactive, moderate tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	08:13	9 / 07:51	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	08:24	9 / 10:11	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	08:37	9 / 14:29	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	08:45	10 / 06:49	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	08:59	10 / 08:42	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	09:11	10 / 14:40	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	09:30	11 / 06:52	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	09:38	11 / 09:06	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	10:02	11 / 14:39	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate
		09-Jun-89	13:37	12 / 09:12	9	hunched posture, slight tremors, slight disoriented, moderate uncoordinated, slight hyperactive, slight excessive thirst, moderate pupils dilated, moderate, left eye inactive, slight hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

1	89F00126	M/ 1/1	09-Jun-89	13:41	12 / 10:53	9	hunched posture, moderate disoriented, moderate inactive, slight uncoordinated, moderate inactive, slight disoriented, moderate tremors, moderate hunched posture, moderate excessive thirst, slight inactive, slight hunched posture, slight normal/no significant signs inactive, slight inactive, slight disoriented, moderate tremors, slight disoriented, slight normal/no significant signs inactive, severe disoriented, moderate uncoordinated, slight increased respiratory depth, slight disoriented, slight uncoordinated, slight increased respiratory depth, slight inactive, moderate hunched posture, moderate inactive, slight hunched posture, moderate disoriented, slight uncoordinated, slight increased respiratory depth, slight pupils dilated, moderate inactive, slight
			09-Jun-89	13:47	12 / 17:00	9	
			09-Jun-89	13:51	13 / 08:55	9	
			09-Jun-89	13:55	13 / 10:20	9	
			09-Jun-89	14:03	13 / 17:00	9	
			09-Jun-89	14:07	14 / 07:45	9	
			09-Jun-89	14:12	14 / 09:41	9	
			09-Jun-89	14:22	14 / 14:13	9	
			09-Jun-89	14:28	15 / 07:10	9	
			09-Jun-89	14:52	1 / 08:59	9	
			09-Jun-89	15:00	1 / 11:42	9	
			09-Jun-89	15:08	1 / 14:54	9	
			13-Jun-89	13:20	2 / 07:55	9	
			13-Jun-89	13:27	2 / 11:18	9	
			13-Jun-89	13:37	2 / 14:33	9	

2 89F00140 M/ 1/2

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
2	89F00140 M/ 1/2	13-Jun-89 13:41	3 / 07:34	inactive, slight
		13-Jun-89 13:49	3 / 14:05	normal/no significant signs
		13-Jun-89 15:28	4 / 08:13	normal/no significant signs
		13-Jun-89 15:31	4 / 14:30	excessive thirst, slight
		13-Jun-89 15:33	4 / 16:46	normal/no significant signs
		13-Jun-89 15:35	5 / 07:59	normal/no significant signs
		13-Jun-89 15:37	5 / 11:17	inactive, slight
		13-Jun-89 15:39	5 / 15:45	normal/no significant signs
		13-Jun-89 15:42	6 / 07:44	inactive, slight
				third eyelid forward, moderate
		13-Jun-89 15:45	6 / 11:12	inactive, slight
				increased respiratory depth, moderate
				pupils dilated, slight
				third eyelid forward, moderate
		13-Jun-89 15:49	6 / 15:29	inactive, slight
				disoriented, slight
				pupils dilated, moderate
		16-Jun-89 14:02	7 / 08:01	inactive, slight
				pupils dilated, slight
				third eyelid forward, slight
		16-Jun-89 14:13	7 / 10:17	inactive, slight
				disoriented, slight
				uncoordinated, slight
		16-Jun-89 14:23	7 / 14:30	inactive, slight
				hunched posture, moderate
				pupils dilated, moderate
		16-Jun-89 14:37	8 / 08:08	inactive, moderate
				pupils dilated, slight
				congested, slight
				disoriented, slight
				uncoordinated, slight
		16-Jun-89 14:45	8 / 10:33	inactive, moderate
				pupils dilated, slight
				congested, slight
		16-Jun-89 14:54	8 / 14:41	normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
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Cage #	Animal Sex/group	Date	Time Data Was Entered	Study Day/time	Oper Data Was Taken	#	Clinical signs / Comments
2	89F00140	M	1/2	16-Jun-89	15:19	9	pupils dilated, right eye
				16-Jun-89	15:23	9	inactive, moderate
				16-Jun-89	15:28	9	hunched posture, slight
				16-Jun-89	15:32	9	inactive, slight
				16-Jun-89	15:35	9	normal/no significant signs
						9	disoriented, slight
						9	uncoordinated, slight
						9	hunched posture, moderate
				16-Jun-89	15:43	9	hunched posture, slight
				16-Jun-89	15:46	9	inactive, slight
				16-Jun-89	15:48	9	hunched posture, slight
				16-Jun-89	15:53	9	inactive, slight
				19-Jun-89	07:31	9	normal/no significant signs
				19-Jun-89	07:33	9	disoriented, slight
						9	uncoordinated, slight
						9	hunched posture, slight
						9	tremors, slight
				19-Jun-89	07:40	9	normal/no significant signs
				19-Jun-89	07:43	9	inactive, slight
				19-Jun-89	07:46	9	inactive, slight
						9	hunched posture, slight
				19-Jun-89	07:56	9	disoriented, slight
						9	hunched posture, slight
						9	inactive, moderate
				19-Jun-89	08:03	9	tremors, slight
						9	hunched posture, slight
				19-Jun-89	08:15	9	inactive, slight
						9	lack of grooming, moderate
						9	inactive, moderate
						9	hunched posture, moderate
						9	tremors, moderate
						9	wide-legged stance, moderate
				19-Jun-89	08:31	9	hunched posture, moderate
						9	inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
2	89F00140 M/ 1/2	19-Jun-89 08:40	15 / 07:08	9	hunched posture, moderate inactive, slight
3	89F00155 M/ 1/3	19-Jun-89 08:53	1 / 08:47	9	hunched posture, slight inactive, slight
		19-Jun-89 09:06	1 / 10:52	9	hunched posture, slight inactive, slight
					hunched posture, slight disoriented, slight uncoordinated, slight
		19-Jun-89 09:19	1 / 14:49	9	inactive, moderate
		19-Jun-89 10:11	2 / 08:42	9	hunched posture, slight uncoordinated, slight
		19-Jun-89 13:16	2 / 10:55	9	inactive, moderate
					hunched posture, slight disoriented, slight
		19-Jun-89 13:23	2 / 14:50	9	normal/no significant signs
		19-Jun-89 13:28	3 / 07:23	9	hunched posture, slight catheter pulled out tremors, slight
		19-Jun-89 13:42	3 / 14:40	9	disoriented, slight
		30-Aug-89 10:44	3 / 17:20	4	normal/no significant signs
		19-Jun-89 13:48	4 / 07:33	9	hunched posture, slight edema ventral, moderate
					increased respiration, slight
		19-Jun-89 13:56	4 / 10:07	9	edema ventral, severe increased respiration, slight inactive, moderate
					swollen testes, moderate
		19-Jun-89 14:06	4 / 14:58	9	inactive, slight
					edema ventral, severe
		19-Jun-89 14:10	5 / 09:25	9	edema ventral, severe
		19-Jun-89 14:16	5 / 12:19	9	edema ventral, severe
					inactive, slight
					hunched posture, slight
		19-Jun-89 14:20	5 / 17:10	9	edema ventral, severe
		19-Jun-89 14:25	6 / 09:05	9	edema ventral, severe

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Raw Data Listings of Clinical Signs Without Masses  
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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
3	89F00155 M/ 1/3	19-Jun-89 14:28	6 / 11:05	9 edema ventral, severe inactive, slight
		19-Jun-89 14:32	6 / 17:10	9 edema ventral, severe
		19-Jun-89 14:34	7 / 07:55	9 edema ventral, severe
		19-Jun-89 14:36	7 / 10:28	9 edema ventral, severe
		19-Jun-89 14:41	7 / 14:11	9 normal/no significant signs
		19-Jun-89 15:11	8 / 08:17	9 startles, slight
		19-Jun-89 15:20	8 / 10:48	9 inactive, slight hunched posture, slight disoriented, moderate uncoordinated, moderate
		19-Jun-89 15:31	8 / 14:37	9 hunched posture, slight disoriented, slight aggressive, slight
		20-Jun-89 07:50	9 / 07:26	9 disoriented, slight inactive, moderate uncoordinated, slight
		20-Jun-89 08:02	9 / 09:53	9 disoriented, slight hyperactive, slight uncoordinated, slight
		20-Jun-89 08:08	9 / 14:57	9 normal/no significant signs
		20-Jun-89 13:16	10 / 08:14	9 inactive, slight
		20-Jun-89 13:24	10 / 09:53	9 hunched posture, moderate disoriented, slight
		20-Jun-89 13:34	10 / 14:25	9 uncoordinated, slight
		20-Jun-89 13:39	11 / 08:32	9 normal/no significant signs
		20-Jun-89 13:44	11 / 09:56	9 hunched posture, moderate disoriented, slight
		20-Jun-89 13:51	11 / 14:24	9 uncoordinated, slight hunched posture, slight
		20-Jun-89 13:57	12 / 08:27	9 disoriented, slight
		20-Jun-89 14:03	12 / 10:50	9 normal/no significant signs
		20-Jun-89 14:08	12 / 20:07	9 disoriented, slight
		20-Jun-89 14:11	13 / 08:12	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper

# Number /Subgroup Date was Entered Data was Taken g

Clinical signs / Comments

3	89F00155	M/ 1/3	20-Jun-89	14:17	13 / 10:20	9	inactive, slight disoriented, moderate lameness, severe, rt fore leg
			20-Jun-89	14:23	13 / 14:04	9	disoriented, slight lameness, severe, rt fore leg
			20-Jun-89	14:30	14 / 08:59	9	lameness, severe, rt fore leg
			20-Jun-89	14:37	14 / 10:27	9	lameness, severe, rt fore leg lameness, severe, left front leg congested, slight
			20-Jun-89	15:01	14 / 15:17	9	disoriented, slight lameness, severe, left front leg increased respiratory depth, slight
			20-Jun-89	15:08	15 / 07:50	9	lameness, severe, left front leg
			21-Jun-89	09:01	1 / 08:32	9	inactive, slight
			21-Jun-89	09:05	1 / 11:23	9	inactive, moderate increased respiration, slight
			21-Jun-89	09:21	1 / 14:57	9	inactive, moderate
			21-Jun-89	09:24	2 / 07:36	9	hunched posture, slight
			21-Jun-89	09:48	2 / 10:40	9	hunched posture, slight inactive, moderate increased respiration, moderate
			21-Jun-89	09:57	2 / 14:40	9	hunched posture, slight inactive, slight excessive thirst, severe
			21-Jun-89	10:18	3 / 07:43	9	hunched posture, slight inactive, slight increased respiration, slight
			21-Jun-89	10:25	3 / 10:22	9	hunched posture, moderate inactive, moderate excessive thirst, slight
			21-Jun-89	10:32	3 / 15:05	9	inactive, slight
			21-Jun-89	10:37	4 / 09:30	9	inactive, slight
			21-Jun-89	10:42	4 / 12:45	9	hunched posture, slight excessive thirst, slight
			21-Jun-89	10:47	4 / 17:15	9	inactive, slight
			22-Jun-89	09:19	5 / 09:10	9	inactive, slight

4 89F00166 M/ 1/4



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M  
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Cage #	Animal Sex/Group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments
4	89F00166 M/ 1/4	22-Jun-89	09:21	5 / 11:26	9 inactive, slight hunched posture, slight excessive thirst, slight
		22-Jun-89	09:24	5 / 17:15	9 inactive, slight
		22-Jun-89	09:27	6 / 08:00	9 normal/no significant signs
		22-Jun-89	09:29	6 / 10:45	9 normal/no significant signs
		22-Jun-89	09:34	6 / 14:30	9 uncoordinated, slight
		22-Jun-89	09:43	7 / 08:34	9 inactive, slight
		22-Jun-89	09:48	7 / 10:00	9 inactive, slight hunched posture, slight uncoordinated, moderate
		22-Jun-89	09:59	7 / 14:42	9 disoriented, slight
		22-Jun-89	10:11	8 / 07:40	9 disoriented, moderate increased respiration, slight
		22-Jun-89	10:19	8 / 10:42	9 disoriented, slight increased respiration, slight
		22-Jun-89	10:24	8 / 15:04	9 inactive, slight increased respiration, moderate
		22-Jun-89	13:31	9 / 08:25	9 increased respiration, slight increased respiration, moderate
		22-Jun-89	13:35	9 / 10:16	9 inactive, slight inactive, moderate disoriented, slight
		22-Jun-89	13:41	9 / 14:32	9 hunched posture, moderate inactive, slight
		22-Jun-89	13:46	10 / 08:15	9 inactive, moderate
		22-Jun-89	13:51	10 / 10:16	9 hunched posture, moderate disoriented, moderate
		22-Jun-89	13:59	10 / 14:31	9 uncoordinated, slight excessive thirst, slight disoriented, moderate excessive thirst, moderate increased respiration, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses		PRINTED: 26-Oct-89 Page: 11	
				Study Number: 88010M			
				Data Listing by Animal			
				Study Start Date: 25-Apr-89		SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
4	89F00166 M/ 1/4	22-Jun-89 14:05	11 / 08:34	9	disoriented, slight lameness, moderate, rt fore leg		
		22-Jun-89 14:10	11 / 11:15	9	disoriented, slight lameness, moderate, rt fore leg		
					inactive, moderate hunched posture, slight excessive thirst, moderate lameness, moderate, rt fore leg		
		22-Jun-89 14:15	11 / 20:12	9	hunched posture, slight lameness, moderate, rt fore leg		
		22-Jun-89 14:19	12 / 08:21	9	hunched posture, slight lameness, moderate, rt fore leg		
		22-Jun-89 14:26	12 / 10:48	9	inactive, moderate lameness, moderate, rt fore leg		
					hunched posture, slight disoriented, moderate uncoordinated, slight lameness, moderate, rt fore leg		
		22-Jun-89 14:34	12 / 14:08	9	hunched posture, slight inactive, slight disoriented, slight uncoordinated, slight lameness, moderate, rt fore leg		
		22-Jun-89 14:49	13 / 09:07	9	inactive, slight disoriented, slight inactive, moderate disoriented, moderate hunched posture, slight lameness, moderate, rt fore leg		
		22-Jun-89 14:54	13 / 10:48	9	disoriented, slight hunched posture, slight lameness, moderate, rt fore leg		
		22-Jun-89 15:00	13 / 15:24	9	disoriented, slight hunched posture, slight lameness, moderate, rt fore leg		
		22-Jun-89 15:04	14 / 07:59	9	hunched posture, slight lameness, moderate, rt fore leg		
		22-Jun-89 15:09	14 / 09:33	9	hunched posture, slight lameness, moderate, rt fore leg		

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV CP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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 SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
4	89F00166 M/ 1/4	22-Jun-89 15:09	14 / 09:33	9 inactive, slight disoriented, slight hunched posture, slight lameness, moderate, rt fore leg inactive, slight tremors, slight
		22-Jun-89 15:16	14 / 14:54	9 hunched posture, moderate lameness, moderate, rt fore leg inactive, slight tremors, slight
		22-Jun-89 15:22	15 / 07:11	9 hunched posture, moderate lameness, moderate, rt fore leg normal/no significant signs
5	89F00130 M/ 1/4	21-Jun-89 09:01	1 / 08:30	9 normal/no significant signs
		21-Jun-89 09:05	1 / 11:15	9 normal/no significant signs
		21-Jun-89 09:21	1 / 14:54	9 normal/no significant signs
		21-Jun-89 09:27	2 / 07:31	9 pupils dilated, slight uncoordinated, slight disoriented, slight
		21-Jun-89 09:48	2 / 10:29	9 pupils dilated, slight uncoordinated, slight disoriented, moderate
		21-Jun-89 09:58	2 / 14:40	9 normal/no significant signs
		21-Jun-89 10:19	3 / 07:21	9 pupils dilated, slight uncoordinated, moderate disoriented, moderate tremors, slight hyperactive, slight wide-legged stance, slight
		21-Jun-89 10:26	3 / 10:19	9 pupils dilated, slight uncoordinated, moderate disoriented, moderate tremors, slight wide-legged stance, moderate
		21-Jun-89 10:32	3 / 15:03	9 inactive, slight
		21-Jun-89 10:37	4 / 09:30	9 inactive, slight pupils dilated, slight disoriented, slight
		21-Jun-89 10:42	4 / 12:30	9 pupils dilated, slight
		21-Jun-89 10:47	4 / 17:15	9 pupils dilated, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date and Time Entered	Study Day/Time	Oper	Clinical signs / Comments
5	89F00130	M / 1/4			
	22-Jun-89	09:19	5 / 09:10	9	pupils dilated, slight
	22-Jun-89	09:21	5 / 11:18	9	pupils dilated, slight inactive, slight
	22-Jun-89	09:24	5 / 17:15	9	pupils dilated, slight inactive, slight
	22-Jun-89	09:27	6 / 08:00	9	pupils dilated, slight
	22-Jun-89	09:30	6 / 10:46	9	pupils dilated, moderate uncoordinated, moderate disoriented, moderate
	22-Jun-89	09:35	6 / 14:27	9	pupils dilated, moderate uncoordinated, moderate disoriented, moderate
	22-Jun-89	09:43	7 / 08:25	9	pupils dilated, moderate uncoordinated, moderate disoriented, moderate
	22-Jun-89	09:49	7 / 09:55	9	pupils dilated, slight uncoordinated, slight tremors, slight hyperactive, slight inactive, slight increased respiration, slight increased respiration, moderate hunched posture, slight disoriented, slight uncoordinated, slight increased respiration, slight normal/no significant signs hunched posture, slight disoriented, slight uncoordinated, slight disoriented, moderate uncoordinated, moderate disoriented, slight
	22-Jun-89	10:00	7 / 14:33	9	increased respiration, slight
	22-Jun-89	10:12	8 / 07:33	9	hunched posture, slight disoriented, slight uncoordinated, slight increased respiration, slight normal/no significant signs hunched posture, slight disoriented, slight uncoordinated, slight disoriented, moderate uncoordinated, moderate disoriented, slight
	22-Jun-89	10:20	8 / 10:31	9	increased respiration, slight
	22-Jun-89	10:24	8 / 15:01	9	normal/no significant signs
	22-Jun-89	13:31	9 / 08:22	9	hunched posture, slight disoriented, slight uncoordinated, slight disoriented, moderate uncoordinated, moderate disoriented, slight
	22-Jun-89	13:36	9 / 10:07	9	disoriented, moderate uncoordinated, moderate disoriented, slight
	22-Jun-89	13:42	9 / 14:30	9	disoriented, slight



# Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES. SUPP., PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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Cage #	Animal Sex/Group Date and Number /Subgroup Data was Entered	Time Study Day/Time Oper Data was Taken	Clinical signs / Comments
5	89F00130 M/ 1/4	22-Jun-89 15:09	14 / 09:29 9
		22-Jun-89 15:17	14 / 14:49 9
		22-Jun-89 15:22	15 / 07:08 9
		07-Jun-89 08:08	1 / 08:36 9
		07-Jun-89 13:57	1 / 03:40 9
		07-Jun-89 14:05	1 / 14:58 9
		08-Jun-89 07:57	2 / 03:05 9
		08-Jun-89 08:08	2 / 09:50 9
		08-Jun-89 08:35	2 / 14:37 9
		08-Jun-89 09:06	3 / 07:35 9
		08-Jun-89 09:47	3 / 10:45 9
		08-Jun-89 09:55	3 / 14:17 9

disoriented, moderate  
uncoordinated, moderate  
hunched posture, slight  
disoriented, moderate  
uncoordinated, moderate  
tremors, moderate  
hunched posture, slight  
lack of appetite, moderate  
normal, no significant signs  
tremors, slight  
disoriented, moderate  
disoriented, slight  
inactive, slight  
hunched posture, slight  
disoriented, slight  
inactive, slight  
hunched posture, slight  
uncoordinated, slight  
disoriented, slight  
hunched posture, slight  
uncoordinated, slight  
increased respiratory depth, slight  
hyperactive, moderate  
disoriented, slight  
inactive, moderate  
hunched posture, slight  
hyperactive, slight  
disoriented, moderate  
inactive, moderate  
hunched posture, moderate  
uncoordinated, slight  
increased respiratory depth, slight  
wide-legged stance, slight  
inactive, slight  
hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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RABBIT/YES ZEALAND WHITE

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Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing By: Animal  
Study Start Date: 25-Apr-89  
SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
6 89F00118	M / 2/1	08-Jun-89 09:55	3 / 14:17	9 Increased respiratory depth, slight excessive thirst, slight
		08-Jun-89 10:04	4 / 07:15	9 Inactive, slight hunched posture, slight disoriented, slight hyperactive, slight excessive thirst, slight
		08-Jun-89 10:11	4 / 10:30	9 Inactive, slight
		08-Jun-89 10:19	4 / 14:15	9 Inactive, slight
		08-Jun-89 10:23	5 / 08:02	9 Inactive, slight
		08-Jun-89 10:27	5 / 11:57	9 Inactive, slight
		08-Jun-89 10:31	5 / 16:36	9 excessive thirst, moderate
		08-Jun-89 10:37	6 / 07:49	9 normal/no significant signs
		08-Jun-89 10:41	6 / 10:23	9 Inactive, slight
		08-Jun-89 10:44	6 / 15:37	9 Inactive, slight
		08-Jun-89 13:44	7 / 07:26	9 disoriented, slight uncoordinated, slight wide-legged stance, slight tremors, moderate
		08-Jun-89 13:47	7 / 10:10	9 disoriented, slight Inactive, slight uncoordinated, slight
		08-Jun-89 13:58	7 / 15:12	9 disoriented, slight Inactive, slight uncoordinated, moderate
		09-Jun-89 07:43	8 / 08:23	9 Inactive, slight hunched posture, slight
		09-Jun-89 07:50	8 / 11:13	9 Inactive, moderate hunched posture, slight disoriented, moderate uncoordinated, moderate red eyes, moderate
		09-Jun-89 08:05	8 / 14:15	9 Inactive, slight hunched posture, slight disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Date was Entered	Date was Taken	#		
6	89F00118	M / 2/1				
		09-Jun-89	08:05	8 / 14:15	9	uncoordinated, slight
		09-Jun-89	08:13	9 / 07:52	9	inactive, slight
						hunched posture, slight
		09-Jun-89	08:25	9 / 09:40	9	inactive, moderate
						hunched posture, slight
						disoriented, moderate
						uncoordinated, slight
		09-Jun-89	08:37	9 / 14:30	9	inactive, slight
						hunched posture, slight
						excessive thirst, slight
		09-Jun-89	08:45	10 / 06:51	9	inactive, slight
						hunched posture, slight
		09-Jun-89	09:02	10 / 08:56	9	disoriented, slight
						hunched posture, slight
						uncoordinated, moderate
		09-Jun-89	09:12	10 / 14:40	9	uncoordinated, slight
						lameness, moderate, right leg
		09-Jun-89	09:31	11 / 06:53	9	lameness, slight, right leg
		09-Jun-89	09:44	11 / 10:54	9	lameness, moderate, right leg
						inactive, slight
						disoriented, slight
						uncoordinated, moderate
		09-Jun-89	10:03	11 / 14:40	9	hunched posture, moderate
						inactive, slight
		09-Jun-89	13:37	12 / 09:14	9	hunched posture, slight
						inactive, slight
						hunched posture, slight
		09-Jun-89	13:42	12 / 11:30	9	lameness, moderate, right leg
						inactive, slight
						hunched posture, moderate
						lameness, moderate, right leg
						disoriented, moderate
		09-Jun-89	13:48	12 / 17:00	9	uncoordinated, moderate
		09-Jun-89	13:51	13 / 08:55	9	inactive, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	Raw Data Listings of Clinical Signs Without Masses	Clinical signs / Comments
6	89F00118 M/ 2/1	09-Jun-89 13:57	13 / 10:23	9 inactive, slight disoriented, moderate uncoordinated, moderate hunched posture, slight lameness, moderate, right leg nervous chewing, moderate
		09-Jun-89 14:04	13 / 17:00	9 inactive, slight
		09-Jun-89 14:08	14 / 07:45	9 inactive, slight hunched posture, slight
		09-Jun-89 14:15	14 / 11:40	9 inactive, slight
		09-Jun-89 14:22	14 / 14:04	9 disoriented, slight hunched posture, slight
		09-Jun-89 14:28	15 / 07:11	9 disoriented, slight hunched posture, slight
		09-Jun-89 14:52	1 / 09:00	9 normal/no significant signs
		09-Jun-89 15:01	1 / 12:00	9 excessive thirst, slight disoriented, moderate hunched posture, moderate
		09-Jun-89 15:09	1 / 14:59	9 disoriented, slight hunched posture, slight
		13-Jun-89 13:21	2 / 07:58	9 disoriented, slight hunched posture, slight
		13-Jun-89 13:28	2 / 11:56	9 inactive, slight disoriented, slight
		13-Jun-89 13:37	2 / 14:34	9 uncoordinated, slight
		13-Jun-89 13:41	3 / 07:36	9 normal/no significant signs
		13-Jun-89 13:49	3 / 14:06	9 normal/no significant signs
		13-Jun-89 15:29	4 / 08:13	9 normal/no significant signs
		13-Jun-89 15:31	4 / 11:56	9 normal/no significant signs
		13-Jun-89 15:33	4 / 16:47	9 normal/no significant signs
		13-Jun-89 15:35	5 / 07:59	9 normal/no significant signs
		13-Jun-89 15:37	5 / 11:22	9 normal/no significant signs
		13-Jun-89 15:39	5 / 15:46	9 inactive, slight
		13-Jun-89 15:42	6 / 07:46	9 normal/no significant signs
7	89F00141 M/ 2/2			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE			Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 19 SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data Has Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments		
7	89F00141 M/ 2/2	13-Jun-89 15:45	6 / 11:19	9	disoriented, moderate hunched posture, slight hyperactive, moderate tremors, moderate	
		13-Jun-89 15:49	6 / 15:30	9	disoriented, slight hunched posture, slight hyperactive, slight uncoordinated, slight hyperactive, slight tremors, slight	
		13-Jun-89 14:04	7 / 08:04	9	pupils dilated, slight hyperactive, slight excessive thirst, slight disoriented, moderate hunched posture, slight uncoordinated, slight disoriented, slight tremors, slight	
		16-Jun-89 14:17	7 / 10:23	9	pupils dilated, moderate disoriented, slight hunched posture, slight normal/no significant signs normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 14:24	7 / 14:32	9	normal/no significant signs normal/no significant signs hunched posture, moderate disoriented, moderate hyperactive, slight aggressive, slight	
		16-Jun-89 14:37	8 / 08:10	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 14:45	8 / 10:35	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 14:54	8 / 14:41	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 15:20	9 / 07:09	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 15:23	9 / 09:46	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 15:28	9 / 14:40	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 15:32	10 / 07:15	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 15:36	10 / 09:45	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 15:43	10 / 14:49	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	
		16-Jun-89 15:46	11 / 09:20	9	normal/no significant signs normal/no significant signs hunched posture, slight normal/no significant signs hyperactive, slight aggressive, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments	
#	Number /Subgroup	Date	Time	Date	Time		
7	89F00141	M/ 2/2	16-Jun-89	15:49	11 / 12:00	9	disoriented, slight inactive, slight hunched posture, slight
			16-Jun-89	15:53	11 / 17:05	9	inactive, slight
			16-Jun-89	07:31	12 / 09:00	9	normal/no significant signs
			19-Jun-89	07:34	12 / 10:47	9	hunched posture, slight disoriented, slight uncoordinated, moderate
			19-Jun-89	07:41	12 / 17:05	9	normal/no significant signs
			19-Jun-89	07:43	13 / 07:50	9	normal/no significant signs
			19-Jun-89	07:46	13 / 10:11	9	hunched posture, slight disoriented, slight uncoordinated, moderate
			19-Jun-89	07:56	13 / 14:24	9	disoriented, slight
			19-Jun-89	08:04	14 / 07:53	9	uncoordinated, slight
			19-Jun-89	08:16	14 / 09:41	9	hyperactive, slight disoriented, moderate hyperactive, moderate hunched posture, moderate uncoordinated, moderate
			19-Jun-89	8:32	14 / 14:25	9	increased respiration, slight excessive thirst, moderate
			19-Jun-89	08:40	15 / 07:10	9	normal/no significant signs
			09-Jun-89	14:53	1 / 08:55	9	normal/no significant signs
			09-Jun-89	15:03	1 / 11:01	9	hyperactive, moderate disoriented, moderate uncoordinated, moderate
			09-Jun-89	15:10	1 / 14:50	9	wide-legged stance, slight excessive thirst, slight hyperactive, slight disoriented, slight uncoordinated, slight wide-legged stance, slight excessive thirst, moderate

8 89F00132 M/ 2/2

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
8 89F00132	M/ 2/2	13-Jun-89 13:21	2 / 07:50	9 disoriented, slight
		13-Jun-89 13:28	2 / 12:15	9 disoriented, slight hyperactive, slight uncoordinated, slight excessive thirst, slight hunched posture, slight normal/no significant signs
		13-Jun-89 13:37	2 / 14:29	9 hunched posture, slight normal/no significant signs
		13-Jun-89 13:41	3 / 07:30	9 hunched posture, slight normal/no significant signs
		13-Jun-89 13:47	3 / 11:32	9 hunched posture, slight normal/no significant signs
		13-Jun-89 13:49	3 / 14:00	9 hunched posture, slight normal/no significant signs
		13-Jun-89 15:29	4 / 08:10	9 excessive thirst, moderate
		13-Jun-89 15:31	4 / 13:35	9 excessive thirst, moderate
		13-Jun-89 15:33	4 / 16:44	9 normal/no significant signs
		13-Jun-89 15:35	5 / 07:54	9 inactive, slight
		13-Jun-89 15:37	5 / 11:03	9 normal/no significant signs
		13-Jun-89 15:39	5 / 15:43	9 normal/no significant signs
		13-Jun-89 15:42	6 / 07:36	9 disoriented, slight wide-legged stance, slight excessive thirst, slight hunched posture, slight
		13-Jun-89 15:46	6 / 11:04	9 disoriented, slight wide-legged stance, slight excessive thirst, slight hunched posture, slight
		13-Jun-89 15:50	6 / 15:22	9 disoriented, slight excessive thirst, moderate hunched posture, slight
		16-Jun-89 14:04	7 / 07:53	9 disoriented, slight uncoordinated, slight wide-legged stance, slight
		16-Jun-89 14:18	7 / 10:06	9 inactive, slight uncoordinated, slight wide-legged stance, slight
		16-Jun-89 14:25	7 / 14:25	9 disoriented, slight uncoordinated, slight wide-legged stance, slight
		16-Jun-89 14:39	8 / 08:03	9 disoriented, slight uncoordinated, slight wide-legged stance, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	#	Clinical signs / Comments
8	89F00132	M/ 2/2	16-Jun-89 14:39	9	uncoordinated, slight wide-legged stance, slight tremors, slight pupils dilated, slight disoriented, slight uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
			8 / 08:03	9	uncoordinated, slight wide-legged stance, slight tremors, slight pupils dilated, slight disoriented, slight uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	14:46	8 / 10:20	9	uncoordinated, slight pupils dilated, slight disoriented, slight uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	14:54	8 / 14:37	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:20	9 / 07:02	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:24	9 / 09:22	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:29	9 / 14:40	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:32	10 / 07:09	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:37	10 / 09:34	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:43	10 / 14:45	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:46	11 / 09:20	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:49	11 / 11:45	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	16-Jun-89	15:53	11 / 17:05	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	19-Jun-89	07:31	12 / 09:00	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs
	19-Jun-89	07:35	12 / 10:35	9	uncoordinated, slight pupils dilated, slight increased respiratory depth, slight excessive thirst, severe normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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 SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
8 89F00132	M/ 2/2	19-Jun-89	07:35	12 / 10:35	9 uncoordinated, moderate tremors, moderate
		19-Jun-89	07:41	12 / 17:05	9 wide-legged stance, moderate
		19-Jun-89	07:43	13 / 07:50	9 inactive, slight
		19-Jun-89	07:47	13 / 10:04	9 normal/no significant signs
					9 disoriented, slight
					9 uncoordinated, moderate
					9 hunched posture, severe
					9 inactive, slight
		19-Jun-89	07:57	13 / 14:17	9 disoriented, moderate
					9 hunched posture, severe
		19-Jun-89	08:04	14 / 07:22	9 disoriented, slight
					9 hunched posture, slight
					9 uncoordinated, slight
					9 inactive, slight
		19-Jun-89	08:17	14 / 09:13	9 disoriented, slight
					9 hunched posture, moderate
					9 inactive, slight
					9 excessive thirst, slight
		19-Jun-89	08:32	14 / 14:20	9 normal/no significant signs
		19-Jun-89	08:40	15 / 07:04	9 disoriented, slight
					9 hunched posture, moderate
		21-Jun-89	09:02	1 / 08:40	9 hunched posture, slight
					9 increased respiration, slight
		21-Jun-89	09:05	1 / 11:43	9 hunched posture, slight
					9 increased respiration, slight
		21-Jun-89	09:22	1 / 15:04	9 excessive thirst, moderate
					9 hunched posture, slight
		21-Jun-89	09:27	2 / 07:45	9 excessive thirst, moderate
		21-Jun-89	09:49	2 / 10:57	9 inactive, slight
					9 hunched posture, slight
		21-Jun-89	09:58	2 / 14:40	9 excessive thirst, moderate
					9 inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAH FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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 SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken			
9	89F00176	M/ 2/4	21-Jun-89 09:58	2 / 14:40	9	excessive thirst, severe
			21-Jun-89 10:19	3 / 07:50	9	normal/no significant signs
			21-Jun-89 10:26	3 / 10:30	9	hunched posture, slight
						excessive thirst, moderate
						inactive, slight
			21-Jun-89 10:32	3 / 15:10	9	inactive, slight
			21-Jun-89 10:38	4 / 09:30	9	normal/no significant signs
			21-Jun-89 10:43	4 / 12:55	9	excessive thirst, slight
			21-Jun-89 10:47	4 / 17:15	9	inactive, slight
			22-Jun-89 09:19	5 / 09:10	9	normal/no significant signs
			22-Jun-89 09:22	5 / 11:33	9	excessive thirst, slight
			22-Jun-89 09:24	5 / 17:15	9	normal/no significant signs
			22-Jun-89 09:27	6 / 08:00	9	inactive, slight
			22-Jun-89 09:30	6 / 11:02	9	inactive, slight
						increased respiration, slight
			22-Jun-89 09:35	6 / 14:13	9	inactive, moderate
						hunched posture, slight
			22-Jun-89 09:44	7 / 08:39	9	increased respiration, slight
			22-Jun-89 09:49	7 / 10:18	9	inactive, slight
						hunched posture, slight
						inactive, moderate
						disoriented, moderate
						uncoordinated, slight
			22-Jun-89 10:00	7 / 14:46	9	excessive thirst, severe
			22-Jun-89 10:12	8 / 07:55	9	normal/no significant signs
			22-Jun-89 10:20	8 / 10:56	9	inactive, moderate
						excessive thirst, moderate
			22-Jun-89 10:24	8 / 15:08	9	excessive thirst, moderate
			22-Jun-89 13:31	9 / 08:29	9	excessive thirst, moderate
			22-Jun-89 13:36	9 / 10:35	9	inactive, slight
			22-Jun-89 13:42	9 / 14:39	9	excessive thirst, severe
			22-Jun-89 13:47	10 / 08:21	9	inactive, slight
			22-Jun-89 13:52	10 / 10:24	9	excessive thirst, moderate
						hyperactive, slight
						hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	#	Clinical signs / Comments
9	89F00176 M/ 2/4	22-Jun-89 13:52	10 / 10:24	9 disoriented, slight
		22-Jun-89 14:00	10 / 14:36	9 inactive, slight
		22-Jun-89 14:06	11 / 08:39	9 excessive thirst, severe
		22-Jun-89 14:11	11 / 11:37	9 normal/no significant signs
				9 excessive thirst, moderate
				9 inactive, slight
				9 hyperactive, slight
		22-Jun-89 14:16	11 / 20:18	9 normal/no significant signs
		22-Jun-89 14:19	12 / 08:27	9 normal/no significant signs
		22-Jun-89 14:27	12 / 11:09	9 disoriented, slight
				9 excessive thirst, moderate
		22-Jun-89 14:35	12 / 14:12	9 disoriented, slight
		22-Jun-89 14:50	13 / 09:13	9 hyperactive, slight
		22-Jun-89 14:56	13 / 11:06	9 inactive, slight
				9 disoriented, slight
		22-Jun-89 15:01	13 / 15:29	9 inactive, slight
		22-Jun-89 15:04	14 / 08:05	9 hunched posture, slight
		22-Jun-89 15:10	14 / 09:46	9 disoriented, moderate
				9 uncoordinated, slight
		22-Jun-89 15:17	14 / 15:00	9 disoriented, slight
		22-Jun-89 15:22	15 / 07:17	9 hunched posture, moderate
		26-Jun-89 07:57	1 / 08:00	9 normal/no significant signs
		26-Jun-89 08:04	1 / 09:50	9 increased respiratory depth, moderate
				9 hunched posture, moderate
				9 inactive, slight
		26-Jun-89 08:07	1 / 14:00	9 normal/no significant signs
		26-Jun-89 08:11	2 / 07:12	9 normal/no significant signs
		26-Jun-89 08:15	2 / 08:55	9 hunched posture, slight
				9 disoriented, slight
		26-Jun-89 08:20	2 / 14:00	9 disoriented, slight
				9 inactive, slight
		26-Jun-89 08:25	3 / 07:53	9 disoriented, slight
		26-Jun-89 08:33	3 / 10:05	9 inactive, slight
				9 hunched posture, slight
				9 increased respiratory depth, slight

10 89F00257 M/ 2/5





## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 27	
Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Entered	Study Day/time Oper Data Was Taken	Clinical signs / Comments		SUB-ACUTE/
10 89F00257	M/ 2/5	26-Jun-89	13:41	10 / 14:09	9	tore open suture site, moderate, left leg excessive thirst, slight	
		26-Jun-89	13:45	11 / 07:20	9	tore open suture site, moderate, left leg lack of appetite, moderate	
		26-Jun-89	13:51	11 / 10:05	9	tore open suture site, moderate, left leg lack of appetite, moderate disoriented, slight	
						excessive thirst, moderate	
						hunched posture, slight	
		26-Jun-89	13:57	11 / 14:26	9	tore open suture site, moderate, left leg disoriented, slight	
		26-Jun-89	14:03	12 / 07:36	9	tore open suture site, moderate, left leg	
		26-Jun-89	14:08	12 / 10:44	9	tore open suture site, severe, left leg disoriented, slight	
						excessive thirst, slight	
		26-Jun-89	14:21	12 / 14:50	9	tore open suture site, severe, left leg disoriented, slight	
						hunched posture, slight	
		26-Jun-89	14:31	13 / 07:45	9	tore open suture site, severe, left leg	
		26-Jun-89	14:38	13 / 09:41	9	tore open suture site, severe, left leg disoriented, moderate	
						hunched posture, slight	
		26-Jun-89	14:44	13 / 14:00	9	tore open suture site, severe, left leg disoriented, moderate	
						hunched posture, slight	
		26-Jun-89	14:48	14 / 10:55	9	tore open suture site, severe, left leg	
		26-Jun-89	14:52	14 / 12:40	9	tore open suture site, severe, left leg inactive, slight	
						disoriented, slight	
		26-Jun-89	14:58	14 / 16:01	9	tore open suture site, severe, left leg	
		26-Jun-89	15:00	15 / 07:01	9	tore open suture site, severe, left leg	
		07-Jun-89	08:05	1 / 10:32	9	normal/no significant signs	
11 89F00129	M/ 3/1	07-Jun-89	13:40	1 / 11:32	9	disoriented, moderate	



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	#		
11	89F00129	M/ 3/1				
		08-Jun-89	10:45	6 / 15:42	9	inactive, slight
		08-Jun-89	13:44	7 / 07:36	9	normal/no significant signs
		08-Jun-89	13:48	7 / 10:50	9	disoriented, slight hyperactive, slight tremors, moderate excessive thirst, slight disoriented, slight pupils dilated, slight wide-legged stance, moderate
		08-Jun-89	13:59	7 / 15:21	9	disoriented, slight pupils dilated, slight wide-legged stance, moderate
		09-Jun-89	07:43	8 / 08:32	9	wide-legged stance, slight disoriented, moderate pupils dilated, moderate excessive thirst, moderate uncoordinated, moderate
		09-Jun-89	07:51	8 / 11:21	9	disoriented, moderate excessive thirst, severe uncoordinated, moderate wide-legged stance, moderate tremors, moderate
		09-Jun-89	08:06	8 / 14:24	9	disoriented, slight pupils dilated, slight wide-legged stance, slight uncoordinated, slight lack of grooming, slight disoriented, moderate wide-legged stance, moderate uncoordinated, moderate excessive thirst, moderate tremors, moderate
		09-Jun-89	08:16	9 / 07:59	9	disoriented, slight pupils dilated, slight wide-legged stance, slight uncoordinated, slight lack of grooming, slight disoriented, moderate wide-legged stance, moderate uncoordinated, moderate excessive thirst, moderate tremors, moderate
		09-Jun-89	08:27	9 / 10:15	9	disoriented, moderate wide-legged stance, moderate uncoordinated, moderate excessive thirst, moderate tremors, moderate
		09-Jun-89	08:38	9 / 14:35	9	normal/no significant signs
		09-Jun-89	08:46	10 / 07:00	9	pupils dilated, moderate
		09-Jun-89	09:03	10 / 09:18	9	pupils dilated, moderate disoriented, moderate uncoordinated, moderate tremors, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

SUS-ACUTE/

Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Taken	Study Day/time	Oper	Clinical signs / Comments
11	89F00129	M/ 3/1				
		09-Jun-89	09:03	10 / 09:18	9	exophthalmus, moderate
		09-Jun-89	09:12	10 / 14:40	9	inactive, slight
		09-Jun-89	09:31	11 / 07:03	9	normal/no significant signs
		09-Jun-89	09:46	11 / 09:33	9	disoriented, moderate pupils dilated, moderate wide-legged stance, slight tremors, slight
		09-Jun-89	10:03	11 / 14:45	9	normal/no significant signs
		09-Jun-89	13:37	12 / 09:23	9	normal/no significant signs
		09-Jun-89	13:43	12 / 11:41	9	disoriented, moderate wide-legged stance, slight uncoordinated, moderate inactive, slight
		09-Jun-89	13:48	12 / 17:00	9	inactive, slight
		09-Jun-89	13:52	13 / 08:55	9	inactive, slight
		09-Jun-89	13:57	13 / 10:33	9	disoriented, moderate excessive thirst, severe tremors, moderate
		09-Jun-89	14:04	13 / 17:00	9	inactive, slight
		09-Jun-89	14:08	14 / 07:45	9	normal/no significant signs
		09-Jun-89	14:16	14 / 10:00	9	disoriented, moderate hunched posture, slight uncoordinated, moderate
		09-Jun-89	14:22	14 / 14:16	9	disoriented, moderate
		09-Jun-89	14:29	15 / 07:20	9	uncoordinated, moderate disoriented, moderate hunched posture, slight
		19-Jun-89	08:54	1 / 08:46	9	normal/no significant signs
		19-Jun-89	09:06	1 / 10:47	9	congested, severe inactive, moderate
		19-Jun-89	09:20	1 / 14:48	9	inactive, moderate pupils dilated, moderate
		19-Jun-89	10:11	2 / 08:25	9	inactive, slight pupils dilated, slight
12	89F00154	M/ 3/3				

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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 SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	#		
12	89F00154	M/ 3/3	19-Jun-89 10:11	2 / 08:25	9	hunched posture, slight
			19-Jun-89 13:16	2 / 10:55	9	pupils dilated, moderate
						hunched posture, slight
						excessive thirst, moderate
			19-Jun-89 13:23	2 / 14:49	9	excessive thirst, moderate
			19-Jun-89 13:29	3 / 07:21	9	excessive thirst, slight
						pupils dilated, moderate
						tremors, moderate
			19-Jun-89 13:34	3 / 10:17	9	uncoordinated, slight
						pupils dilated, slight
						inactive, slight
			19-Jun-89 13:43	3 / 14:40	9	pupils dilated, slight
						inactive, slight
						excessive thirst, moderate
			19-Jun-89 13:48	4 / 07:27	9	pupils dilated, slight
			19-Jun-89 13:58	4 / 10:05	9	hunched posture, slight
						excessive thirst, slight
						tremors, moderate
						uncoordinated, slight
			19-Jun-89 14:06	4 / 14:58	9	inactive, slight
			19-Jun-89 14:11	5 / 09:25	9	inactive, slight
						pupils dilated, slight
			19-Jun-89 14:16	5 / 12:17	9	inactive, slight
						pupils dilated, slight
						hunched posture, slight
			19-Jun-89 14:21	5 / 17:10	9	inactive, slight
						pupils dilated, slight
						hunched posture, slight
			19-Jun-89 14:26	6 / 09:05	9	inactive, slight
			19-Jun-89 14:29	6 / 11:00	9	uncoordinated, slight
						pupils dilated, slight
						excessive thirst, slight
			19-Jun-89 14:32	6 / 17:10	9	inactive, slight
			19-Jun-89 14:34	7 / 07:55	9	inactive, slight
			19-Jun-89 14:37	7 / 10:29	9	inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data Was Entered	Time Study Data Was Taken	Oper	Clinical signs / Comments
12 89F00154	M/ 3/3	19-Jun-89	14:37	7 / 10:29	9 hunched posture, slight excessive thirst, slight uncoordinated, moderate wide-legged stance, moderate tremors, slight uncoordinated, slight disoriented, slight wide-legged stance, moderate increased respiratory depth, moderate disoriented, moderate wide-legged stance, slight inactive, slight hunched posture, slight inactive, slight excessive thirst, moderate inactive, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		19-Jun-89	14:43	7 / 14:09	9 hunched posture, slight excessive thirst, slight uncoordinated, moderate wide-legged stance, moderate tremors, slight uncoordinated, slight disoriented, slight wide-legged stance, moderate increased respiratory depth, moderate disoriented, moderate wide-legged stance, slight inactive, slight hunched posture, slight inactive, slight excessive thirst, moderate inactive, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		19-Jun-89	15:12	8 / 08:15	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, moderate increased respiratory depth, moderate disoriented, moderate wide-legged stance, slight inactive, slight hunched posture, slight inactive, slight excessive thirst, moderate inactive, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		19-Jun-89	15:21	8 / 10:42	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, moderate increased respiratory depth, moderate disoriented, moderate wide-legged stance, slight inactive, slight hunched posture, slight inactive, slight excessive thirst, moderate inactive, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		19-Jun-89	15:32	8 / 14:35	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, moderate increased respiratory depth, moderate disoriented, moderate wide-legged stance, slight inactive, slight hunched posture, slight inactive, slight excessive thirst, moderate inactive, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		20-Jun-89	07:51	9 / 07:24	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		20-Jun-89	08:03	9 / 09:50	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		20-Jun-89	08:09	9 / 14:56	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		20-Jun-89	13:16	10 / 11:13	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		20-Jun-89	13:25	10 / 14:45	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		20-Jun-89	13:34	10 / 14:23	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate
		20-Jun-89	13:40	11 / 08:31	9 hunched posture, slight excessive thirst, slight uncoordinated, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, slight wide-legged stance, slight inactive, slight uncoordinated, moderate disoriented, moderate

Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 33 SUB-ACUTE/	
Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time	Oper	Clinical signs / Comments	
12	89F00154	M/ 3/3	20-Jun-89 13:40	11 / 08:31	9	hunched posture, moderate	
			20-Jun-89 13:45	11 / 09:55	9	inactive, moderate uncoordinated, moderate disoriented, moderate wide-legged stance, moderate	
			20-Jun-89 13:52	11 / 14:23	9	inactive, severe uncoordinated, moderate disoriented, severe	
			20-Jun-89 13:57	12 / 08:26	9	dead	
13	89F00147	M/ 3/3	19-Jun-89 08:55	1 / 08:33	7	red eyes, slight inactive, slight hunched posture, slight	
			19-Jun-89 09:08	1 / 10:53	9	inactive, moderate hunched posture, severe startles, moderate disoriented, moderate	
			19-Jun-89 09:22	1 / 14:44	9	inactive, moderate hunched posture, moderate increased respiratory depth, slight	
			19-Jun-89 10:13	2 / 08:18	9	inactive, slight hunched posture, moderate increased respiratory depth, slight startles, slight disoriented, slight uncoordinated, slight	
			19-Jun-89 13:17	2 / 10:45	9	inactive, slight hunched posture, slight disoriented, slight lameness, slight, right leg	
			19-Jun-89 13:23	2 / 14:43	9	normal/no significant signs	
			19-Jun-89 13:30	3 / 07:15	9	lameness, slight, right leg	
			19-Jun-89 13:34	3 / 10:00	9	inactive, moderate hunched posture, moderate	
			19-Jun-89 13:43	3 / 14:40	9	inactive, slight	
			19-Jun-89 13:49	4 / 07:24	9	lameness, slight, right leg	





## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 35	
Cage #	Animal Sex/group Date and Number /Subgroup Date was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments	SUB-ACUTE/	
13	89F00147 M/ 3/3	20-Jun-89 07:52	9 / 07:15	9	hunched posture, slight inactive, moderate red swollen testicles, slight startles, moderate		
	20-Jun-89 08:04	9 / 09:30	9	inactive, moderate startles, moderate wide-legged stance, slight tremors, moderate excessive thirst, moderate			
	20-Jun-89 08:09	9 / 14:49	9	excessive thirst, slight inactive, slight			
	20-Jun-89 13:16	10 / 08:08	9	inactive, slight			
	20-Jun-89 13:26	10 / 09:34	9	inactive, moderate hunched posture, moderate red swollen testicles, slight startles, moderate			
	20-Jun-89 13:34	10 / 14:19	9	excessive thirst, moderate			
	20-Jun-89 13:40	11 / 08:24	9	normal/no significant signs			
	20-Jun-89 13:45	11 / 09:49	9	inactive, moderate hunched posture, moderate excessive thirst, moderate tremors, moderate			
	20-Jun-89 13:52	11 / 14:18	9	excessive thirst, severe			
	20-Jun-89 13:58	12 / 08:22	9	hunched posture, slight inactive, slight			
	20-Jun-89 14:04	12 / 10:30	9	hunched posture, slight tremors, moderate excessive thirst, slight			
	20-Jun-89 14:08	12 / 20:04	9	normal/no significant signs			
	20-Jun-89 14:11	13 / 08:09	9	normal/no significant signs			
	20-Jun-89 14:17	13 / 10:05	9	hunched posture, slight inactive, slight			
	20-Jun-89 14:23	13 / 14:01	9	excessive thirst, slight hunched posture, slight inactive, slight			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
13	89F00147 M/ 3/3	20-Jun-89 14:30	14 / 08:53	9 hunched posture, slight inactive, moderate
		20-Jun-89 14:38	14 / 10:23	9 hunched posture, moderate tremors, moderate
		20-Jun-89 15:01	14 / 15:13	9 hunched posture, moderate increased respiration, slight
		20-Jun-89 15:08	15 / 07:18	9 normal/no significant signs
		21-Jun-89 09:02	1 / 08:36	9 normal/no significant signs
		21-Jun-89 09:06	1 / 11:29	9 normal/no significant signs
		21-Jun-89 09:22	1 / 15:01	9 excessive thirst, severe
		21-Jun-89 09:27	2 / 07:41	9 excessive thirst, severe
		21-Jun-89 09:50	2 / 10:46	9 uncoordinated, slight
				9 uncoordinated, moderate disoriented, moderate
				9 lack of grooming, moderate
		21-Jun-89 09:59	2 / 14:40	9 excessive thirst, severe
		21-Jun-89 10:19	3 / 07:46	9 excessive thirst, severe
		21-Jun-89 10:27	3 / 10:33	9 excessive thirst, slight
				9 lack of grooming, moderate
		21-Jun-89 10:33	3 / 15:08	9 normal/no significant signs
		21-Jun-89 10:38	4 / 09:30	9 normal/no significant signs
		21-Jun-89 10:43	4 / 12:52	9 inactive, slight
		21-Jun-89 10:48	4 / 17:15	9 normal/no significant signs
		22-Jun-89 09:19	5 / 09:10	9 inactive, slight
		22-Jun-89 09:22	5 / 11:28	9 inactive, slight
		22-Jun-89 09:25	5 / 17:15	9 normal/no significant signs
		22-Jun-89 09:27	6 / 08:00	9 inactive, slight
		22-Jun-89 09:31	6 / 10:54	9 tremors, moderate
				9 uncoordinated, moderate
				9 disoriented, moderate
		22-Jun-89 09:36	6 / 14:36	9 tremors, slight
				9 uncoordinated, moderate
				9 disoriented, moderate
				9 increased respiration, slight
		22-Jun-89 09:44	7 / 08:36	9 tremors, moderate
				9 hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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 Data Listing by Animal  
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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
14	89F00172	M/ 3/4	22-Jun-89 09:44	7 / 08:36	9	wide-legged stance, slight tremors, moderate
			22-Jun-89 09:51	7 / 10:09	9	hunched posture, moderate wide-legged stance, slight excessive thirst, slight uncoordinated, moderate disoriented, moderate increased respiration, slight
			22-Jun-89 10:01	7 / 14:44	9	wide-legged stance, slight excessive thirst, moderate
			22-Jun-89 10:12	8 / 07:45	9	wide-legged stance, slight
			22-Jun-89 10:21	8 / 10:47	9	excessive thirst, slight increased respiration, moderate
			22-Jun-89 10:24	8 / 15:06	9	excessive thirst, severe increased respiration, slight
			22-Jun-89 13:32	9 / 08:27	9	disoriented, slight
			22-Jun-89 13:36	9 / 10:20	9	disoriented, slight startles, moderate tremors, slight
			22-Jun-89 13:42	9 / 14:36	9	excessive thirst, severe
			22-Jun-89 13:47	10 / 08:19	9	normal/no significant signs
			22-Jun-89 13:52	10 / 10:18	9	increased respiration, moderate disoriented, slight
						hunched posture, slight inactive, slight
			22-Jun-89 14:00	10 / 14:34	9	normal/no significant signs
			22-Jun-89 14:06	11 / 08:36	9	hunched posture, slight
			22-Jun-89 14:12	11 / 11:23	9	hunched posture, slight disoriented, slight startles, slight
			22-Jun-89 14:16	11 / 20:16	9	disoriented, slight
			22-Jun-89 14:20	12 / 08:24	9	normal/no significant signs
			22-Jun-89 14:29	12 / 10:54	9	excessive thirst, moderate disoriented, slight hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Taken	Study Day/time Oper	Clinical signs / Comments
14	89F00172 M/ 3/4	22-Jun-89 14:35	12 / 14:10	9	disoriented, slight
		22-Jun-89 14:50	13 / 09:10	9	normal/no significant signs
		22-Jun-89 14:56	13 / 10:58	9	disoriented, slight startles, slight hunched posture, moderate tremors, slight
		22-Jun-89 15:01	13 / 15:26	9	normal/no significant signs
		22-Jun-89 15:05	14 / 08:02	9	disoriented, moderate uncoordinated, slight hunched posture, moderate
		22-Jun-89 15:10	14 / 09:42	9	disoriented, slight hunched posture, moderate
		22-Jun-89 15:17	14 / 14:57	9	disoriented, slight hunched posture, moderate
		22-Jun-89 15:23	15 / 07:14	9	inactive, slight hunched posture, moderate
		21-Jun-89 09:02	1 / 08:36	9	hunched posture, moderate inactive, slight red eyes, moderate
		21-Jun-89 09:06	1 / 11:35	9	hunched posture, moderate inactive, moderate red eyes, moderate
		21-Jun-89 09:23	1 / 15:02	9	increased respiration, slight increased respiration, slight excessive thirst, moderate
		21-Jun-89 09:28	2 / 07:42	9	hunched posture, slight inactive, moderate red eyes, moderate
		21-Jun-89 09:52	2 / 10:47	9	increased respiration, moderate excessive thirst, slight hunched posture, moderate
		21-Jun-89 10:00	2 / 14:40	9	inactive, moderate edema ventral, severe
		21-Jun-89 10:22	3 / 07:46	9	normal/no significant signs hunched posture, moderate inactive, moderate increased respiration, moderate

**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

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### Raw Data Listings of Clinical Signs Without Masses

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SUB-ACUTE/

Cage #	Animal Sex/group Number /Subgroup	Date Data was Entered	Time Data was Taken	Study Day/Time	Oper #	Clinical signs / Comments	
15	89F00173	M / 3/4	21-Jun-89	10:22	3 / 07:46	9	excessive thirst, severe uncoordinated, moderate edema ventral, severe hunched posture, severe inactive, moderate increased respiration, moderate edema ventral, severe tremors, severe
	21-Jun-89	10:28	3 / 10:34	9		hunched posture, moderate	
	21-Jun-89	10:33	3 / 15:08	9		hunched posture, moderate inactive, slight edema ventral, severe	
	21-Jun-89	10:39	4 / 09:30	9		hunched posture, slight inactive, slight edema ventral, severe	
	21-Jun-89	10:43	4 / 12:50	9		lack of grooming, slight hunched posture, slight inactive, slight edema ventral, severe	
	21-Jun-89	10:48	4 / 17:15	9		lack of grooming, slight hunched posture, slight inactive, slight	
	22-Jun-89	09:20	5 / 09:10	9		lack of grooming, slight hunched posture, slight inactive, slight	
	22-Jun-89	09:22	5 / 11:33	9		lack of grooming, slight hunched posture, slight inactive, slight	
	22-Jun-89	09:25	5 / 17:15	9		lack of grooming, moderate hunched posture, slight inactive, slight	
	22-Jun-89	09:27	6 / 08:00	9		lack of grooming, moderate hunched posture, slight inactive, slight	
	22-Jun-89	09:31	6 / 10:55	9		lack of grooming, slight hunched posture, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper

# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

15	89F00173	M/ 3/4	22-Jun-89	09:31	6 / 10:55	9	inactive, slight lack of grooming, slight hunched posture, moderate inactive, moderate lack of grooming, severe lack of appetite mouth infected-moderate hunched posture, moderate inactive, moderate lack of grooming, severe lack of appetite
			22-Jun-89	09:38	6 / 14:38	9	
			22-Jun-89	09:45	7 / 08:38	9	
			22-Jun-89	09:51	7 / 10:10	9	
			22-Jun-89	10:01	7 / 14:45	9	excessive thirst, moderate
			22-Jun-89	10:15	8 / 07:53	9	depressed, moderate inactive, moderate swelling mouth, severe hunched posture, moderate lack of grooming, moderate lack of appetite, severe depressed, moderate inactive, moderate swelling mouth, severe hunched posture, moderate lack of grooming, moderate lack of appetite, severe increased respiration, slight depressed, moderate inactive, moderate swelling mouth, severe hunched posture, severe lack of grooming, severe
			22-Jun-89	10:21	8 / 10:50	9	
			22-Jun-89	10:25	8 / 15:07	9	

Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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SUB-ACUTE/

Cage #	Animal Sex/group Date and Time	Study Day/time	Oper Data was Taken	#	Clinical signs / Comments
15 89F00173	M/ 3/4	22-Jun-89 10:25	8 / 15:07	9	lack of appetite, severe
		22-Jun-89 13:52	9 / 08:28	9	depressed, moderate
					inactive, moderate
					swelling mouth, severe
					hunched posture, severe
					lack of grooming, severe
					lack of appetite, severe
		22-Jun-89 13:37	9 / 10:35	9	depressed, severe
					inactive, severe
					swelling mouth, severe
					hunched posture, severe
					lack of grooming, severe
					lack of appetite, severe
		22-Jun-89 13:43	9 / 14:37	9	depressed, severe
					inactive, severe
					swelling mouth, severe
					hunched posture, moderate
					lack of grooming, severe
					lack of appetite, severe
					increased respiratory depth, moderate
		22-Jun-89 13:47	10 / 08:19	9	depressed, severe
					inactive, severe
					swelling mouth, severe
					hunched posture, moderate
					lack of grooming, severe
					lack of appetite, severe
					increased respiratory depth, moderate
		22-Jun-89 13:54	10 / 10:21	9	depressed, severe
					inactive, severe
					swelling mouth, severe
					hunched posture, moderate
					lack of grooming, severe
					lack of appetite, severe
					increased respiratory depth, moderate
					tremors, moderate



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments
15	89FG0173 M/ 3/4	22-Jun-89 13:54	weight loss
		22-Jun-89 14:01	depressed, severe inactive, severe swelling mouth, severe hunched posture, moderate lack of grooming, severe lack of appetite, severe increased respiratory depth, slight weight loss, severe depressed, severe inactive, severe
		11 / 08:37	weight loss, severe depressed, severe inactive, severe hunched posture, moderate lack of appetite, moderate increased respiratory depth, moderate weight loss, severe increased respiration, slight depressed, severe inactive, severe
		11 / 11:29	weight loss, severe depressed, severe inactive, severe swelling mouth, severe hunched posture, moderate lack of appetite, moderate weight loss, severe increased respiration, moderate depressed, severe inactive, severe
		11 / 20:17	weight loss, severe depressed, severe inactive, severe swelling mouth, severe hunched posture, moderate lack of appetite, moderate weight loss, severe increased respiration, moderate tremors, slight depressed, severe inactive, severe
		12 / 08:24	weight loss, severe depressed, severe inactive, severe swelling mouth, severe

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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SUB-ACUTE/

Cage #	Animal Sex/group Date	Time Study Day/time Oper	Clinical signs / Comments
#	Number /Subgroup Date was Entered	Data was Taken	#
15	89F00173 M/ 3/4	22-Jun-89 14:22	12 / 08:24 9
			hunched posture, moderate lack of appetite, severe weight loss, severe increased respiration, moderate increased respiratory depth, moderate pulled catheter depressed, severe inactive, severe swelling mouth, severe hunched posture, moderate lack of appetite, severe weight loss, severe increased respiration, moderate increased respiratory depth, moderate tremors, slight
	22-Jun-89 14:30	12 / 11:05	9
			depressed, severe inactive, severe swelling mouth, severe hunched posture, moderate lack of appetite, moderate weight loss, severe increased respiration, slight increased respiratory depth, slight depressed, moderate
	22-Jun-89 14:36	12 / 14:11	9
			inactive, severe swelling mouth, severe hunched posture, moderate lack of appetite, moderate weight loss, severe increased respiration, slight increased respiratory depth, slight depressed, moderate
	22-Jun-89 14:50	13 / 09:10	9
			inactive, severe swelling mouth, severe hunched posture, moderate lack of appetite, moderate weight loss, severe increased respiration, slight increased respiratory depth, slight depressed, severe inactive, severe swelling mouth, severe hunched posture, moderate
	22-Jun-89 14:57	13 / 11:00	9
			inactive, severe swelling mouth, severe hunched posture, moderate

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[illegible]

Clinical signs / comments

15 89F00173	M/ 3/4	22-Jun-89	14:57	13 / 11:00	9	lack of appetite, moderate weight loss, severe
		22-Jun-89	15:01	13 / 15:27	9	increased respiratory depth, moderate depressed, severe inactive, severe
		22-Jun-89	15:05	14 / 08:03	9	swelling mouth, severe hunched posture, moderate lack of appetite, moderate weight loss, severe
		22-Jun-89	15:11	14 / 10:15	9	increased respiratory depth, moderate depressed, severe inactive, severe
		22-Jun-89	15:18	14 / 14:58	9	swelling mouth, severe hunched posture, moderate lack of appetite, moderate weight loss, severe
		22-Jun-89	15:24	15 / 07:15	9	depressed, moderate inactive, slight swelling mouth, severe hunched posture, moderate lack of appetite, slight weight loss, severe
		22-Jun-89	15:24	15 / 07:15	9	depressed, severe swelling mouth, severe hunched posture, severe lack of appetite, slight weight loss, severe
		22-Jun-89	15:24	15 / 07:15	9	increased respiration, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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 SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
15 89F00173	M/ 3/4	22-Jun-89	15:24	15 / 07:15	9 not using leg, severe, left front leg
16 89F00127	M/ 4/1	07-Jun-89	08:05	1 / 10:10	9 normal/no significant signs
		07-Jun-89	13:41	1 / 11:09	9 excessive thirst, slight inactive, moderate
		07-Jun-89	14:07	1 / 15:09	9 hunched posture, slight increased respiratory depth, slight red eyes, slight disoriented, slight
		08-Jun-89	07:53	2 / 08:08	9 red eyes, slight disoriented, slight wide-legged stance, slight hyperactive, slight
		08-Jun-89	08:12	2 / 10:36	9 red eyes, moderate disoriented, moderate wide-legged stance, moderate excessive thirst, moderate hunched posture, moderate increased respiration, slight uncoordinated, moderate increased respiratory depth, moderate
		08-Jun-89	08:42	2 / 14:45	9 red eyes, slight hunched posture, moderate increased respiratory depth, moderate inactive, moderate
		08-Jun-89	09:07	3 / 07:46	9 red eyes, slight disoriented, slight hyperactive, slight uncoordinated, slight
		08-Jun-89	09:48	3 / 10:37	9 red eyes, slight disoriented, slight excessive thirst, slight
		08-Jun-89	09:56	3 / 14:25	9 excessive thirst, slight
		08-Jun-89	10:05	4 / 07:26	9 excessive thirst, moderate red eyes, slight
		08-Jun-89	10:12	4 / 10:55	9 inactive, slight increased respiration, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Cage #	Animal Sex/group	Date	Time	Study Day/time	Opf	Clinical signs / Comments
#	Number	Subgroup	Data was Entered	Data was Taken	#	
16	89F00127	M/	4/1			
			08-Jun-89	10:12	4 / 10:55	9 disoriented, slight
			08-Jun-89	10:20	4 / 14:22	9 inactive, slight
			08-Jun-89	10:24	5 / 08:07	9 normal/no significant signs
			08-Jun-89	10:28	5 / 13:00	9 excessive thirst, moderate
						increased respiration, slight
			08-Jun-89	10:35	5 / 16:41	9 excessive thirst, moderate
			08-Jun-89	10:38	6 / 07:53	9 normal/no significant signs
			08-Jun-89	10:41	6 / 10:43	9 normal/no significant signs
			08-Jun-89	10:45	6 / 15:41	9 normal/no significant signs
			08-Jun-89	13:44	7 / 07:33	9 normal/no significant signs
			08-Jun-89	13:48	7 / 10:40	9 disoriented, slight
						hunched posture, slight
			08-Jun-89	13:59	7 / 15:18	9 disoriented, slight
						hunched posture, moderate
						startles, moderate
			09-Jun-89	07:44	8 / 08:29	9 hunched posture, slight
						inactive, slight
			09-Jun-89	07:52	8 / 11:17	9 hunched posture, moderate
						inactive, moderate
						disoriented, moderate
						red eyes, slight
			09-Jun-89	08:07	8 / 14:21	9 inactive, slight
						disoriented, slight
						tremors, slight
						uncoordinated, slight
			09-Jun-89	08:19	9 / 07:57	9 inactive, slight
						hunched posture, slight
			09-Jun-89	08:29	9 / 10:10	9 hunched posture, slight
						disoriented, moderate
						tremors, moderate
						uncoordinated, slight
			09-Jun-89	08:38	9 / 14:34	9 hunched posture, slight
						inactive, slight
			09-Jun-89	08:46	10 / 06:57	9 tremors, moderate
			09-Jun-89	09:03	10 / 09:12	9 hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Raw Data Listings of Clinical Signs Without Hoses  
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 Study Start Date: 25-Apr-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time	Study Day/Time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	#	
16	89F00127	M/ 4/1	09-Jun-89	09:03	10 / 09:12 9
					disoriented, moderate
					inactive, moderate
					uncoordinated, moderate
					inactive, slight
					tremors, slight
					uncoordinated, slight
					inactive, slight
					hunched posture, slight
					uncoordinated, slight
					hunched posture, moderate
					uncoordinated, moderate
					inactive, moderate
					disoriented, moderate
					inactive, slight
					inactive, slight
					disoriented, slight
					uncoordinated, moderate
					nervous chewing, slight
					inactive, slight
					lack of grooming, slight
					normal/no significant signs
					wide-legged stance, slight
					inactive, slight
					hunched posture, slight
					disoriented, moderate
					disoriented, slight
					uncoordinated, slight
					wide-legged stance, slight
					normal/no significant signs
					disoriented, slight
					red eyes, slight
					disoriented, slight
					disoriented, slight
					red eyes, slight
17	89F00131	M/ 4/2	09-Jun-89	14:53	1 / 14:45 9
					1 / 15:45 9
					1 / 17:17 9
					2 / 07:51 9

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Entered	Study Date	Time Oper	Clinical signs / Comments
17	89F00131	M / 4/2				
		13-Jun-89	13:22	2 / 07:51	9	uncoordinated, slight
		13-Jun-89	13:29	2 / 12:17	9	disoriented, moderate red eyes, slight uncoordinated, slight hunched posture, slight excessive thirst, slight disoriented, slight red eyes, slight tremors, slight
		13-Jun-89	13:37	2 / 14:20	9	uncoordinated, slight
		13-Jun-89	13:44	3 / 07:31	9	disoriented, slight red eyes, slight tremors, slight
		13-Jun-89	13:49	3 / 14:02	9	normal/no significant signs
		13-Jun-89	15:29	4 / 08:11	9	normal/no significant signs
		13-Jun-89	15:32	4 / 13:13	9	excessive thirst, slight
		13-Jun-89	15:34	4 / 16:45	9	excessive thirst, severe
		13-Jun-89	15:36	5 / 07:55	9	inactive, slight
		13-Jun-89	15:38	5 / 10:55	9	normal/no significant signs
		13-Jun-89	15:40	5 / 15:44	7	excessive thirst, slight
		13-Jun-89	15:43	6 / 07:37	9	inactive, slight
		13-Jun-89	15:46	6 / 11:04	9	normal/no significant signs
		16-Jun-89	14:07	7 / 07:56	9	uncoordinated, slight hunched posture, moderate
		16-Jun-89	14:18	7 / 10:03	9	inactive, moderate uncoordinated, slight
		16-Jun-89	14:26	7 / 14:26	9	disoriented, slight excessive thirst, moderate uncoordinated, slight
		16-Jun-89	14:39	8 / 08:04	9	inactive, slight disoriented, slight excessive thirst, moderate hunched posture, slight tremors, slight
		16-Jun-89	14:46	8 / 10:26	9	hunched posture, slight tremors, slight hunched posture, slight tremors, slight

**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

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Cage #	Animal Sex/group	Date and Time Data Was Entered	Study Day/Time Oper Data Was Taken	#	Clinical signs / Comments	
17	89F00131	M/ 4/2	16-Jun-89 14:46	8 / 10:26	9	disoriented, moderate uncoordinated, slight
		16-Jun-89 14:55	8 / 14:39	9	excessive thirst, severe	
		16-Jun-89 15:21	9 / 07:03	9	hunched posture, slight tremors, slight	
		16-Jun-89 15:25	9 / 09:26	9	excessive thirst, moderate tremors, moderate	
					disoriented, moderate uncoordinated, moderate	
					startles, moderate	
		16-Jun-89 15:29	9 / 14:40	9	excessive thirst, moderate	
		16-Jun-89 15:33	10 / 07:09	9	inactive, slight	
					hunched posture, slight tremors, slight	
		16-Jun-89 15:39	10 / 09:32	9	tremors, moderate	
					disoriented, slight	
					excessive thirst, slight	
					startles, slight	
					inactive, slight	
		16-Jun-89 15:44	10 / 14:46	9	inactive, slight	
		16-Jun-89 15:47	11 / 09:20	9	excessive thirst, slight	
		16-Jun-89 15:50	11 / 11:48	9	hunched posture, moderate	
					inactive, slight	
					disoriented, slight	
		16-Jun-89 15:53	11 / 17:05	9	inactive, slight	
		19-Jun-89 07:31	12 / 09:00	9	inactive, slight	
		19-Jun-89 07:36	12 / 10:37	9	disoriented, moderate	
					tremors, moderate	
					hunched posture, slight	
					uncoordinated, moderate	
					excessive thirst, moderate	
		19-Jun-89 07:41	12 / 17:05	9	hunched posture, slight	
		19-Jun-89 07:44	13 / 07:50	9	inactive, slight	
		19-Jun-89 07:48	13 / 10:02	9	inactive, slight	
					hunched posture, slight	



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89			PRINTED: 26-Oct-89 Page: 50	
Cage #	Animal Sex/group	Date Entered	Date and Time Entered	Study Day/Time Oper	Study Day/Time Oper	Clinical signs / Comments		
17 89F00131	M/ 4/2	19-Jun-89	07:48	13 / 10:02	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	07:57	13 / 14:20	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	08:05	14 / 07:47	9	disoriented, slight uncoordinated, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	08:20	14 / 09:22	9	disoriented, slight uncoordinated, slight hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	08:33	14 / 14:21	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	08:41	15 / 07:05	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
18 89F00157	M/ 4/3	19-Jun-89	08:55	1 / 08:49	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	09:09	1 / 10:55	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	09:23	1 / 14:21	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	10:13	2 / 10:02	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	13:18	2 / 11:05	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	13:23	2 / 14:52	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	13:30	3 / 07:26	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	13:35	3 / 10:23	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	13:43	3 / 14:40	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		
		19-Jun-89	13:49	4 / 07:30	9	disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight uncoordinated, slight hunched posture, slight disoriented, slight tramors, moderate hunched posture, slight excessive thirst, slight wide-legged stance, slight uncoordinated, moderate		

SUB-ACUTE/

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

PRINTED: 26-Oct-89  
Page: 51

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Cage #	Animal Sex/group	Date and Time Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
18 89F00157	M/ 4/3	19-Jun-89 14:00	4 / 10:50	9	disoriented, moderate uncoordinated, moderate
		19-Jun-89 14:07	4 / 15:00	9	inactive, slight
		19-Jun-89 14:11	5 / 09:25	9	normal/no significant signs
		19-Jun-89 14:17	5 / 12:27	9	disoriented, slight uncoordinated, slight
		19-Jun-89 14:22	5 / 17:10	9	normal/no significant signs
		19-Jun-89 14:26	6 / 09:05	9	inactive, slight
		19-Jun-89 14:29	6 / 11:05	9	inactive, slight hunched posture, slight
		19-Jun-89 14:32	6 / 17:10	9	normal/no significant signs
		19-Jun-89 14:34	7 / 07:55	9	normal/no significant signs
		19-Jun-89 14:38	7 / 10:40	9	normal/no significant signs
		19-Jun-89 14:46	7 / 14:13	9	disoriented, slight tremors, slight
		19-Jun-89 15:14	8 / 08:19	9	uncoordinated, slight disoriented, slight tremors, slight
		19-Jun-89 15:24	8 / 11:03	9	uncoordinated, slight inactive, slight hunched posture, slight disoriented, moderate tremors, moderate
		19-Jun-89 15:33	8 / 14:38	9	hunched posture, moderate lameness, moderate, left hind leg
		20-Jun-89 07:53	9 / 07:29	9	disoriented, slight tremors, moderate disoriented, moderate tremors, moderate
		20-Jun-89 08:04	9 / 10:02	9	uncoordinated, moderate
		20-Jun-89 08:09	9 / 14:59	9	normal/no significant signs
		20-Jun-89 13:17	10 / 08:16	9	normal/no significant signs
		20-Jun-89 13:27	10 / 09:51	9	lameness, severe, left hind leg
					inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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RABBIT/NEW ZEALAND WHITE

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Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
18 89F00157	M/ 4/3	20-Jun-89 13:27	10 / 09:51	9 hunched posture, moderate
		20-Jun-89 13:35	10 / 14:26	9 lameness, severe, left hind leg
		20-Jun-89 13:40	11 / 08:24	9 hunched posture, slight
		20-Jun-89 13:46	11 / 10:00	9 lameness, severe, left hind leg
				9 inactive, slight
				9 lameness, severe, left hind leg
				9 inactive, slight
				9 hunched posture, moderate
				9 disoriented, slight
				9 increased respiration, slight
		20-Jun-89 13:53	11 / 14:26	9 lameness, severe, left hind leg
		20-Jun-89 13:58	12 / 08:27	9 inactive, slight
		20-Jun-89 14:04	12 / 11:03	9 lameness, severe, left hind leg
				9 inactive, slight
				9 lameness, severe, left hind leg
				9 inactive, slight
				9 hunched posture, slight
				9 increased respiration, slight
		20-Jun-89 14:09	12 / 20:09	9 lameness, severe, left hind leg
		20-Jun-89 14:12	13 / 08:14	9 lameness, severe, left hind leg
				9 inactive, slight
				9 hunched posture, slight
		20-Jun-89 14:19	13 / 10:27	9 lack of appetite, moderate
				9 disoriented, moderate
				9 inactive, moderate
				9 hunched posture, severe
		20-Jun-89 14:24	13 / 14:05	9 lameness, moderate, left hind leg
				9 disoriented, moderate
				9 inactive, slight
				9 hunched posture, moderate
				9 lameness, moderate, left hind leg
		20-Jun-89 14:31	14 / 09:00	9 inactive, slight
				9 hunched posture, slight
				9 lameness, severe, left hind leg
		20-Jun-89 14:39	14 / 10:30	9 inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
18	89F00157	M/ 4/3	20-Jun-89	14:39	14 / 10:30	9	pupils dilated, slight hunched posture, slight increased respiration, slight not using leg, severe
19	89F00169	M/ 4/4	20-Jun-89	15:04	14 / 15:19	9	normal/no significant signs
			20-Jun-89	15:09	15 / 07:54	9	hunched posture, slight
			21-Jun-89	08:57	1 / 08:34	9	hunched posture, slight
			21-Jun-89	09:07	1 / 11:28	9	hunched posture, slight
			21-Jun-89	09:23	1 / 14:59	9	hunched posture, slight
			21-Jun-89	09:29	2 / 07:38	9	hunched posture, moderate
			21-Jun-89	09:53	2 / 10:41	9	inactive, slight disoriented, moderate
			21-Jun-89	10:02	2 / 14:40	9	uncoordinated, moderate
21-Jun-89	10:22	3 / 07:45	9	inactive, slight			
21-Jun-89	10:28	3 / 10:30	9	inactive, moderate hunched posture, moderate disoriented, moderate			
21-Jun-89	10:34	3 / 15:06	9	uncoordinated, moderate			
21-Jun-89	10:39	4 / 09:30	9	inactive, slight			
21-Jun-89	10:44	4 / 12:45	9	inactive, slight hunched posture, slight disoriented, slight			
21-Jun-89	10:48	4 / 17:15	9	uncoordinated, slight			
21-Jun-89	10:58	5 / 09:10	9	inactive, slight			
22-Jun-89	09:23	5 / 11:23	9	inactive, slight			
22-Jun-89	09:25	5 / 17:15	9	hunched posture, slight			
22-Jun-89	09:28	6 / 08:00	9	hunched posture, slight			
22-Jun-89	09:32	6 / 10:47	9	inactive, slight disoriented, moderate uncoordinated, moderate			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 82010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments
19	89F00169 M/ 4/4	22-Jun-89	09:38	6 / 14:31	9 disoriented, moderate uncoordinated, moderate
		22-Jun-89	09:45	7 / 08:34	9 disoriented, moderate uncoordinated, moderate
		22-Jun-89	09:52	7 / 10:05	9 disoriented, severe uncoordinated, severe inactive, moderate tremors, severe
		22-Jun-89	10:03	7 / 14:43	9 wide-legged stance, moderate disoriented, moderate uncoordinated, moderate tremors, moderate
		22-Jun-89	10:15	8 / 07:41	9 disoriented, moderate uncoordinated, moderate tremors, moderate
		22-Jun-89	10:21	8 / 10:37	9 normal/no significant signs
		22-Jun-89	10:25	8 / 15:05	9 normal/no significant signs
		22-Jun-89	13:32	9 / 08:25	9 disoriented, moderate uncoordinated, moderate tremors, moderate
		22-Jun-89	13:37	9 / 10:21	9 disoriented, moderate uncoordinated, moderate tremors, slight
		22-Jun-89	13:43	9 / 14:33	9 inactive, slight
		22-Jun-89	13:47	10 / 08:16	9 normal/no significant signs
		22-Jun-89	13:55	10 / 10:18	9 normal/no significant signs disoriented, moderate uncoordinated, moderate tremors, moderate
		22-Jun-89	14:01	10 / 14:31	9 inactive, slight
		22-Jun-89	14:07	11 / 08:35	9 normal/no significant signs
		22-Jun-89	14:12	11 / 11:18	9 normal/no significant signs disoriented, moderate uncoordinated, moderate tremors, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
19 89F00169	M/ 4/4	22-Jun-89 14:16	11 / 20:15	9 uncoordinated, slight disoriented, slight
		22-Jun-89 14:24	12 / 08:22	9 disoriented, slight
		22-Jun-89 14:31	12 / 10:49	9 disoriented, moderate uncoordinated, moderate excessive thirst, moderate inactive, slight
		22-Jun-89 14:37	12 / 14:09	9 disoriented, moderate uncoordinated, slight inactive, moderate
		22-Jun-89 14:51	13 / 09:08	9 disoriented, slight uncoordinated, slight
		22-Jun-89 14:58	13 / 10:55	9 disoriented, moderate uncoordinated, moderate tremors, slight
		22-Jun-89 15:01	13 / 15:24	9 disoriented, moderate uncoordinated, slight tremors, slight
		22-Jun-89 15:05	14 / 08:00	9 disoriented, slight uncoordinated, moderate tremors, moderate
		22-Jun-89 15:12	14 / 09:34	9 hunched posture, slight disoriented, moderate uncoordinated, moderate
		22-Jun-89 15:19	14 / 14:55	9 disoriented, moderate uncoordinated, slight lameness, moderate, left front leg inactive, slight
		22-Jun-89 15:25	15 / 07:12	9 disoriented, moderate uncoordinated, moderate inactive, moderate
		22-Jun-89 07:57	1 / 08:00	9 hunched posture, slight normal/no significant signs
		26-Jun-89 08:04	1 / 09:55	9 increased respiration, moderate inactive, slight

20 89F00258 M/ 4/5

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments
20	89F00258 M/ 4/5		
	26-Jun-89 08:08	1 / 14:00	inactive, slight tremors, moderate
	26-Jun-89 08:12	2 / 07:13	wide-legged stance, moderate tremors, severe disoriented, moderate
	26-Jun-89 08:16	2 / 09:05	wide-legged stance, moderate tremors, severe disoriented, moderate
	26-Jun-89 08:21	2 / 14:00	inactive, slight uncoordinated, slight disoriented, slight
	26-Jun-89 08:25	3 / 07:54	uncoordinated, slight disoriented, slight
	26-Jun-89 08:40	3 / 10:05	increased respiration, moderate inactive, moderate wide-legged stance, moderate tremors, slight
	26-Jun-89 09:18	3 / 14:06	uncoordinated, slight increased respiration, slight wide-legged stance, slight pupils dilated, moderate excessive thirst, moderate normal/no significant signs
	26-Jun-89 09:31	4 / 07:32	wide-legged stance, slight uncoordinated, slight
	26-Jun-89 09:38	4 / 11:39	wide-legged stance, slight uncoordinated, slight
	26-Jun-89 09:42	4 / 14:37	wide-legged stance, slight uncoordinated, slight
	26-Jun-89 09:47	5 / 07:21	wide-legged stance, slight pupils dilated, slight excessive thirst, moderate
	26-Jun-89 10:00	5 / 10:33	wide-legged stance, slight pupils dilated, slight uncoordinated, slight
	26-Jun-89 10:06	5 / 13:54	pupils dilated, slight increased respiration, slight tremors, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses		Study Number: 88010H Data Listing by Animal: Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 57		SUB-ACUTE/	
Cage #	Animal Number	Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time	Oper Data was Taken	#	Clinical signs / Comments			
20	89F00258	M/ 4/5	26-Jun-89	10:06	5 / 13:54	9		disoriented, slight			
			26-Jun-89	10:09	6 / 08:25	9		pupils dilated, slight			
			26-Jun-89	10:13	6 / 09:50	9		normal/no significant signs			
			26-Jun-89	10:19	6 / 14:18	9		wide-legged stance, slight			
								disoriented, slight			
								uncoordinated, slight			
			26-Jun-89	10:30	7 / 07:15	9		normal/no significant signs			
			26-Jun-89	10:36	7 / 09:00	9		inactive, slight			
								wide-legged stance, moderate			
								disoriented, slight			
								uncoordinated, slight			
			26-Jun-89	10:46	7 / 14:29	9		uncoordinated, slight			
								tremors, slight			
			26-Jun-89	12:55	8 / 10:28	9		normal/no significant signs			
			26-Jun-89	13:01	8 / 11:28	9		uncoordinated, slight			
								pupils dilated, slight			
			26-Jun-89	13:08	8 / 14:20	9		pupils dilated, slight			
			26-Jun-89	13:12	9 / 08:09	9		pupils dilated, slight			
								uncoordinated, slight			
								tremors, slight			
								hunched posture, slight			
			26-Jun-89	13:21	9 / 09:46	9		inactive, slight			
								pupils dilated, slight			
								hunched posture, slight			
								inactive, slight			
			26-Jun-89	13:27	9 / 14:05	9		disoriented, slight			
								pupils dilated, slight			
								hunched posture, slight			
			26-Jun-89	13:32	10 / 07:52	9		inactive, slight			
			26-Jun-89	13:38	10 / 09:07	9		inactive, slight			
								hunched posture, slight			
			26-Jun-89	13:41	10 / 14:09	9		inactive, slight			
								hunched posture, slight			
			26-Jun-89	13:46	11 / 07:20	9		inactive, slight			
								hunched posture, moderate			



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Raw Data Listings of Clinical Signs Without Masses  
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 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date and Time	Study Day/time Oper	Clinical signs / Comments
#	Number / Subgroup Data was Entered	Data was Taken	
20	89F00258 M/ 4/5	26-Jun-89 13:46	9 lack of appetite, moderate
		26-Jun-89 13:51	9 inactive, moderate
		11 / 07:20	9 lack of appetite, moderate
		11 / 10:05	9 hunched posture, slight
		11 / 14:26	9 hunched posture, moderate
		12 / 07:36	9 inactive, moderate
			mucus in stool, moderate
		26-Jun-89 14:09	9 hunched posture, severe
		12 / 10:44	9 inactive, moderate
			disoriented, moderate
		26-Jun-89 14:24	9 lack of appetite, moderate
		12 / 14:51	9 hunched posture, severe
			inactive, moderate
			lack of appetite, moderate
			diarrhea, moderate
		26-Jun-89 14:33	9 lameness, severe, left rear leg
		13 / 07:46	9 hunched posture, severe
			inactive, moderate
			diarrhea, slight
		26-Jun-89 14:39	9 lameness, severe, left rear leg
		13 / 09:41	9 tremors, moderate
			hunched posture, severe
			inactive, severe
			disoriented, moderate
			increased respiratory depth, moderate
		26-Jun-89 14:44	9 lameness, severe, left rear leg
		13 / 14:01	9 hunched posture, severe
			inactive, severe
			disoriented, moderate
		26-Jun-89 14:49	9 lameness, severe, left rear leg
		14 / 10:56	9 uncoordinated, moderate
			hunched posture, slight
			inactive, moderate
			disoriented, severe
		26-Jun-89 14:53	9 inactive, moderate
		14 / 12:45	9

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

PRINTED: 26-Oct-89  
 Page: 59

Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date and Number /Subgroup	Date Entered	Time Data Was Taken	Study Day/Time Oper	Clinical signs / Comments
20	89F00258 M/ 4/5	26-Jun-89 14:53	14 / 12:45	9	hunched posture, moderate
		26-Jun-89 14:58	14 / 16:03	9	inactive, moderate
		26-Jun-89 15:00	15 / 07:01	9	inactive, slight
					hunched posture, moderate
21	89F00116 M/ 5/1	07-Jun-89 08:05	1 / 08:53	9	normal/no significant signs
		07-Jun-89 13:42	1 / 09:53	9	disoriented, moderate
					increased respiratory depth, slight
		07-Jun-89 14:08	1 / 14:57	9	disoriented, moderate
					increased respiration, moderate
					wide-legged stance, moderate, both
		08-Jun-89 07:54	2 / 08:01	9	disoriented, slight
					wide-legged stance, slight, both
					uncoordinated, slight
		08-Jun-89 08:14	2 / 09:26	9	hyperactive, slight
					disoriented, slight
					uncoordinated, slight
					hyperactive, slight
		08-Jun-89 08:44	2 / 14:34	9	pupils dilated, slight
					pupils dilated, moderate
					wide-legged stance, slight
					hunched posture, slight
					excessive thirst, severe
		08-Jun-89 09:08	3 / 07:32	9	pupils dilated, slight
					wide-legged stance, slight
					disoriented, slight
		08-Jun-89 09:49	3 / 10:54	9	uncoordinated, slight
					pupils dilated, slight
					wide-legged stance, moderate
					disoriented, moderate
					uncoordinated, slight
					excessive thirst, severe
		08-Jun-89 09:56	3 / 14:13	9	excessive thirst, slight
		08-Jun-89 10:05	4 / 07:12	9	normal/no significant signs
		08-Jun-89 10:12	4 / 10:34	9	disoriented, slight
					wide-legged stance, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN DIV OF RESEARCH, P, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

STUDY NUMBER: 88010M  
 DATA LISTING BY ANIMAL  
 STUDY START DATE: 25-APR-89

PRINTED: 26-Oct-89  
 Page: 60  
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Cage #	Animal Sex/group Date and Time	Raw Data Listings of Clinical Signs Without Masses	Clinical signs / Comments
#	Number /Subgroup Data was Entered	Study Day/time Oper Data was Taken #	
21 89F00116	M/ 5/1	08-Jun-89 10:12	4 / 10:34 9 hyperactive, slight hunched posture, slight
		08-Jun-89 10:20	4 / 14:35 9 disoriented, slight
		08-Jun-89 10:24	5 / 08:01 9 normal/no significant signs
		08-Jun-89 10:29	5 / 11:50 9 increased respiration, slight excessive thirst, moderate
		08-Jun-89 10:35	5 / 16:35 9 excessive thirst, moderate
		08-Jun-89 10:38	6 / 07:47 9 normal/no significant signs
		08-Jun-89 10:41	6 / 10:17 9 normal/no significant signs
		08-Jun-89 10:45	6 / 15:36 9 normal/no significant signs
		08-Jun-89 13:44	7 / 07:25 9 normal/no significant signs
		08-Jun-89 13:48	7 / 10:01 9 disoriented, slight wide-legged stance, slight
		08-Jun-89 14:00	7 / 15:09 9 disoriented, moderate inactive, moderate
			aggressive, slight congested, moderate
		09-Jun-89 07:44	8 / 08:20 9 hunched posture, slight
		09-Jun-89 07:52	8 / 11:05 9 hunched posture, slight disoriented, moderate
			startles, moderate
		09-Jun-89 0' 3	8 / 14:14 9 uncoordinated, slight
			uncoordinated, slight
		09-Jun-89 08:19	9 / 07:50 9 normal/no significant signs
		09-Jun-89 08:30	9 / 09:22 9 disoriented, moderate
			uncoordinated, moderate
		09-Jun-89 08:39	9 / 14:28 9 hyperactive, slight
		09-Jun-89 08:46	10 / 06:49 9 normal/no significant signs
		09-Jun-89 09:04	10 / 08:31 9 normal/no significant signs
			disoriented, slight
		09-Jun-89 09:13	10 / 14:40 9 uncoordinated, slight
		09-Jun-89 09:31	11 / 06:51 9 disoriented, slight
			normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 61		SUB-ACUTE/ SUB-ACUTE/	
Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments				
21 89F00116	M/ 5/1	09-Jun-89	09:49	11 / 08:55	9	inactive, slight hunched posture, slight normal/no significant signs			
		09-Jun-89	10:04	11 / 14:38	9	normal/no significant signs			
		09-Jun-89	13:38	12 / 09:11	9	normal/no significant signs			
		09-Jun-89	13:44	12 / 10:49	9	disoriented, slight uncoordinated, slight wide-legged stance, moderate normal/no significant signs			
		09-Jun-89	13:58	13 / 10:10	9	disoriented, slight hunched posture, slight normal/no significant signs			
		09-Jun-89	14:05	13 / 17:00	9	normal/no significant signs			
		09-Jun-89	14:09	14 / 07:55	9	normal/no significant signs			
		09-Jun-89	14:17	14 / 09:47	9	inactive, slight increased respiration, slight congested, moderate			
		09-Jun-89	14:23	14 / 14:02	9	increased respiration, slight congested, moderate			
		09-Jun-89	14:30	15 / 07:09	9	hunched posture, slight increased respiration, slight			
		07-Jun-89	08:03	1 / 10:15	9	inactive, slight			
		07-Jun-89	13:51	1 / 11:20	9	increased respiratory depth, slight increased respiration, moderate disoriented, slight			
		07-Jun-89	14:10	1 / 15:10	9	hunched posture, slight disoriented, slight pupils dilated, moderate			
		08-Jun-89	07:54	2 / 08:11	9	wide-legged stance, slight pupils dilated, moderate wide-legged stance, slight hyperactive, slight			
		08-Jun-89	08:16	2 / 10:44	9	pupils dilated, moderate wide-legged stance, moderate hyperactive, moderate excessive thirst, moderate increased respiration, slight			
22 89F00128	M/ 5/1								

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
22	89F00128 M/ 5/1	08-Jun-89 08:16	2 / 10:44	9 disoriented, slight
		08-Jun-89 08:45	2 / 14:43	9 pupils dilated, moderate wide-legged stance, slight disoriented, slight
		08-Jun-89 09:08	3 / 07:47	9 pupils dilated, moderate wide-legged stance, slight disoriented, slight
		08-Jun-89 09:49	3 / 10:38	9 wide-legged stance, slight disoriented, slight disoriented, slight
		08-Jun-89 09:56	3 / 14:26	9 normal/no significant signs
		08-Jun-89 10:06	4 / 07:27	9 pupils dilated, moderate
		08-Jun-89 10:13	4 / 10:56	9 inactive, slight disoriented, slight
		08-Jun-89 10:20	4 / 14:24	9 inactive, slight
		08-Jun-89 10:25	5 / 08:07	9 pupils dilated, moderate
		08-Jun-89 10:29	5 / 13:18	9 increased respiratory depth, slight excessive thirst, slight
		08-Jun-89 10:35	5 / 16:42	9 normal/no significant signs
		08-Jun-89 10:39	6 / 07:54	9 normal/no significant signs
		08-Jun-89 10:41	6 / 10:45	9 normal/no significant signs
		08-Jun-89 10:45	6 / 15:41	9 normal/no significant signs
		08-Jun-89 13:44	7 / 07:34	9 pupils dilated, moderate
		08-Jun-89 13:49	7 / 10:50	9 pupils dilated, moderate disoriented, slight
		08-Jun-89 14:03	7 / 15:19	9 wide-legged stance, slight pupils dilated, moderate disoriented, moderate increased respiration, slight uncoordinated, moderate
		09-Jun-89 07:45	8 / 08:30	9 pupils dilated, moderate uncoordinated, slight
		09-Jun-89 07:55	8 / 11:10	9 increased respiration, moderate pupils dilated, severe disoriented, moderate uncoordinated, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
22 89F00128	M / 5/1	09-Jun-89 07:55	8 / 11:10	9 raspy breathing, moderate tremors, moderate
		09-Jun-89 08:08	8 / 14:23	9 increased respiration, moderate pupils dilated, severe disoriented, moderate uncoordinated, moderate tremors, slight
		09-Jun-89 08:21	9 / 07:57	9 disoriented, slight uncoordinated, moderate pupils dilated, moderate, left eye pupils dilated, severe, right eye
		09-Jun-89 08:32	9 / 10:18	9 disoriented, moderate uncoordinated, slight pupils dilated, severe, left eye pupils dilated, severe, right eye hyperactive, moderate lack of grooming, moderate tremors, moderate
		09-Jun-89 08:39	9 / 14:35	9 pupils dilated, severe
		09-Jun-89 08:48	10 / 06:58	9 normal/no significant signs increased respiration, slight tremors, slight
		09-Jun-89 09:05	10 / 09:18	9 pupils dilated, moderate, left eye pupils dilated, severe, right eye lack of grooming, moderate pupils dilated, moderate disoriented, moderate uncoordinated, moderate tremors, moderate
		09-Jun-89 09:13	10 / 14:40	9 hyperactive, slight pupils dilated, moderate, left eye pupils dilated, severe, right eye
		09-Jun-89 09:32	11 / 07:01	9 pupils dilated, moderate, left eye pupils dilated, severe, right eye tremors, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
22	89F00128 M/ 5/1	09-Jun-89 14:30	15 / 07:19	9 pupils dilated, severe, right eye pupils dilated, moderate, left eye
23	89F00148 M/ 5/3	19-Jun-89 08:56	1 / 08:38	9 normal/no significant signs
		19-Jun-89 09:09	1 / 10:35	9 hunched posture, slight disoriented, moderate
		19-Jun-89 09:32	1 / 14:45	9 hunched posture, slight disoriented, moderate wide-legged stance, slight tremors, moderate inactive, slight
		19-Jun-89 10:13	2 / 08:20	9 hunched posture, slight disoriented, slight wide-legged stance, slight inactive, slight
		19-Jun-89 13:19	2 / 10:47	9 uncoordinated, moderate hunched posture, slight wide-legged stance, slight excessive thirst, slight
		19-Jun-89 13:24	2 / 14:44	9 hunched posture, slight excessive thirst, severe
		19-Jun-89 13:31	3 / 07:30	9 hunched posture, slight inactive, slight
		19-Jun-89 13:36	3 / 10:09	9 disoriented, slight wide-legged stance, slight uncoordinated, moderate
		19-Jun-89 13:44	3 / 14:40	9 excessive thirst, severe hunched posture, slight
		19-Jun-89 13:50	4 / 07:25	9 excessive thirst, severe
		19-Jun-89 14:00	4 / 09:57	9 excessive thirst, moderate hunched posture, slight inactive, slight
		19-Jun-89 14:07	4 / 14:54	9 inactive, slight hunched posture, slight
		19-Jun-89 14:12	5 / 09:25	9 excessive thirst, slight



**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

## Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

**Data Listing by Animal  
Study Start Date: 25-Apr-89**

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**SUB-ACUTE**

Cage #	Animal Sex/group Number /Subgroup	Date and Date was Entered	Time Study Day/time Oper Data was Taken	Oper #	Clinical signs / Comments	
23	89F00148 M/ 5/3	19-Jun-89	14:18	5 / 12:07	9	excessive thirst, slight inactive, slight hunched posture, slight
		19-Jun-89	14:22	5 / 17:10	9	inactive, slight hunched posture, slight
		19-Jun-89	14:26	6 / 09:05	9	inactive, slight hunched posture, slight
		19-Jun-89	14:29	6 / 10:50	9	inactive, slight hunched posture, slight
		19-Jun-89	14:32	6 / 17:10	9	inactive, slight hunched posture, slight
		19-Jun-89	14:34	7 / 07:55	9	inactive, slight hunched posture, slight
		19-Jun-89	14:38	7 / 10:20	9	inactive, slight hunched posture, slight
		19-Jun-89	14:46	7 / 14:03	9	inactive, slight hunched posture, slight
		19-Jun-89	15:14	8 / 08:09	9	excessive thirst, slight inactive, slight disoriented, slight
		19-Jun-89	15:25	8 / 10:33	9	uncoordinated, slight disoriented, moderate
		19-Jun-89	15:33	8 / 14:31	9	uncoordinated, moderate hunched posture, slight
		20-Jun-89	07:53	9 / 07:17	9	uncoordinated, moderate hunched posture, slight inactive, slight
		20-Jun-89	08:04	9 / 09:31	9	excessive thirst, moderate tremors, slight
		20-Jun-89	08:09	9 / 14:50	9	inactive, moderate
		20-Jun-89	13:17	10 / 08:09	9	inactive, slight hunched posture, slight
		20-Jun-89	13:29	10 / 09:34	9	inactive, moderate hunched posture, moderate disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M

Date Listing by Animal  
Study Start Date: 25-Apr-89

PRINTED: 26-Oct-89  
Page: 67

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
23	89F00148 M/ 5/3	20-Jun-89 13:35	10 / 14:20	9	excessive thirst, moderate
		20-Jun-89 13:40	11 / 08:24	9	normal/no significant signs
		20-Jun-89 13:46	11 / 09:49	9	inactive, slight
					disoriented, moderate
					uncoordinated, moderate
		20-Jun-89 13:53	11 / 14:18	9	inactive, slight
					excessive thirst, slight
		20-Jun-89 13:58	12 / 08:23	9	inactive, slight
		20-Jun-89 14:04	12 / 10:33	9	disoriented, slight
					hunched posture, slight
		20-Jun-89 14:09	12 / 20:05	9	normal/no significant signs
		20-Jun-89 14:12	13 / 08:09	9	normal/no significant signs
		20-Jun-89 14:19	13 / 10:05	9	inactive, slight
					disoriented, slight
					hunched posture, slight
		20-Jun-89 14:24	13 / 14:01	9	inactive, slight
					disoriented, slight
					hunched posture, slight
					uncoordinated, slight
		20-Jun-89 14:31	14 / 08:59	9	inactive, slight
		20-Jun-89 14:40	14 / 10:11	9	inactive, moderate
					hunched posture, moderate
		20-Jun-89 15:05	14 / 15:14	9	inactive, slight
		20-Jun-89 15:09	15 / 07:25	9	normal/no significant signs
		26-Jun-89 07:57	1 / 08:00	9	normal/no significant signs
		26-Jun-89 08:04	1 / 10:00	9	disoriented, moderate
		26-Jun-89 08:08	1 / 14:00	9	inactive, slight
		26-Jun-89 08:13	2 / 07:15	9	disoriented, slight
					hunched posture, moderate
		26-Jun-89 08:17	2 / 09:05	5	disoriented, moderate
					hunched posture, moderate
					inactive, moderate
		26-Jun-89 08:21	2 / 14:00	9	hunched posture, slight
					inactive, slight

24 89F00259 M/ 5/5

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

PRINTED: 26-Oct-89  
 Page: 68  
 SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Data Was Taken	Study Day/Time Oper	Clinical signs / Comments
24	29F00259	M/ 5/5	26-Jun-89 08:26	3 / 07:55	9 hunched posture, slight disoriented, slight tremors, slight
	26-Jun-89	08:41	3 / 10:14	9	inactive, slight disoriented, slight hunched posture, slight loose stool, moderate
	26-Jun-89	09:24	3 / 14:07	9	inactive, moderate hunched posture, slight
	26-Jun-89	09:32	4 / 07:37	9	inactive, moderate hunched posture, slight
	26-Jun-89	09:38	4 / 11:47	9	inactive, slight hunched posture, slight
	26-Jun-89	09:43	4 / 14:38	9	hunched posture, slight mucus under cage - slight
	26-Jun-89	09:47	5 / 07:24	9	inactive, slight hunched posture, slight tremors, slight
	26-Jun-89	10:01	5 / 10:45	9	uncoordinated, slight inactive, moderate tremors, slight
	26-Jun-89	10:06	5 / 13:58	9	loose stool, slight uncoordinated, moderate
	26-Jun-89	10:09	6 / 08:25	9	inactive, moderate uncoordinated, slight
	26-Jun-89	10:14	6 / 09:52	9	hunched posture, slight inactive, moderate tremors, slight
	26-Jun-89	10:21	6 / 14:18	9	loose stool, moderate inactive, slight tremors, slight
	26-Jun-89	10:30	7 / 07:16	9	disoriented, slight hunched posture, slight uncoordinated, slight
					inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUVE/

Cage # Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Date was Entered Data was Taken #

Clinical signs / Comments

24	89F00259	M / 5/5	26-Jun-89	10:30	7 / 07:16	9	tremors, slight disoriented, slight hunched posture, moderate uncoordinated, slight disoriented, moderate uncoordinated, slight excessive thirst, moderate hunched posture, moderate inactive, slight lack of grooming, moderate hunched posture, slight inactive, slight lack of grooming, moderate hunched posture, slight inactivity, slight lameness, moderate, left front leg inactive, slight increased respiratory depth, slight hunched posture, slight lack of grooming, moderate tremors, slight disoriented, slight hunched posture, moderate disoriented, slight inactive, moderate hunched posture, slight inactive, slight excessive thirst, slight hunched posture, slight inactive, slight hunched posture, slight inactive, slight disoriented, slight lack of grooming, moderate hunched posture, slight
	26-Jun-89		10:37		7 / 08:57	9	
	26-Jun-89		10:47		7 / 14:30	9	
	26-Jun-89		12:56		8 / 09:10	9	
	26-Jun-89		13:02		8 / 10:10	9	
	26-Jun-89		13:09		8 / 14:21	9	
	26-Jun-89		13:13		9 / 08:10	9	
	26-Jun-89		13:22		9 / 09:51	9	
	26-Jun-89		13:28		9 / 14:06	9	
	26-Jun-89		13:33		10 / 07:53	9	
	26-Jun-89		13:39		10 / 09:15	9	
	26-Jun-89		13:41		10 / 14:10	9	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE			Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 70 SUB-ACUTE/	
Cage #	Animal Sex/group Date	Time Data Was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments	
24 89F00259	M/ 5/5	26-Jun-89 13:41	10 / 14:10	9	lack of grooming, moderate excessive thirst, slight hunched posture, moderate tremors, slight disoriented, slight hunched posture, moderate tremors, slight disoriented, moderate inactive, slight	
		26-Jun-89 13:47	11 / 07:21	9	hunched posture, moderate tremors, slight disoriented, slight hunched posture, moderate tremors, slight disoriented, moderate inactive, slight	
		26-Jun-89 13:52	11 / 10:12	9	hunched posture, moderate tremors, slight disoriented, moderate inactive, slight	
		26-Jun-89 13:58	11 / 14:27	9	hunched posture, moderate disoriented, slight inactive, slight lameness, moderate, rt fore leg lameness, slight, rt fore leg disoriented, slight hunched posture, slight lameness, slight, rt fore leg disoriented, slight	
		26-Jun-89 14:05	12 / 07:38	9	hunched posture, slight lameness, moderate, rt fore leg lameness, slight, rt fore leg disoriented, slight hunched posture, slight lameness, slight, rt fore leg disoriented, slight	
		26-Jun-89 14:10	12 / 10:51	9	hunched posture, slight lameness, slight, rt fore leg disoriented, slight hunched posture, slight lameness, slight, rt fore leg disoriented, slight	
		26-Jun-89 14:24	12 / 14:51	9	hunched posture, slight lameness, slight, rt fore leg disoriented, slight hunched posture, slight lameness, slight, rt fore leg disoriented, slight	
		26-Jun-89 14:34	13 / 07:48	9	hunched posture, slight lameness, slight, rt fore leg disoriented, slight hunched posture, moderate lack of appetite, slight lameness, slight, rt fore leg disoriented, moderate hunched posture, severe tremors, slight uncoordinated, moderate lameness, moderate, rt fore leg disoriented, slight	
		26-Jun-89 14:42	13 / 09:48	9	hunched posture, slight lameness, slight, rt fore leg disoriented, moderate hunched posture, severe tremors, slight uncoordinated, moderate lameness, moderate, rt fore leg disoriented, slight	
		26-Jun-89 14:45	13 / 14:01	9	hunched posture, slight lameness, slight, rt fore leg disoriented, slight hunched posture, severe tremors, slight uncoordinated, moderate lameness, moderate, rt fore leg disoriented, slight	
		26-Jun-89 14:50	14 / 11:15	9	hunched posture, slight lameness, slight, rt fore leg disoriented, slight hunched posture, moderate inactive, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89			PRINTED: 26-Oct-89 Page: 71	
							SUB-ACUTE/	

**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

## Raw Data Listings of Clinical Signs Without Masses

Study Number: J309M Apr13

### Indexing by Animal

**Study Start Date: 25-Apr-89**

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SUB-ACUTE/

Cage #	Animal Sex/group Number /Subgroup	Date	Time Data was Entered	Time Study Day/time Oper Data was Taken	Oper #	Clinical signs / Comments	
25	89F00261	M/ 5/5	26-Jun-89	10:22	6 / 14:19	9	inactive, moderate lack of appetite, slight hunched posture, moderate tearing, moderate
	26-Jun-89		10:31	7 / 07:17	9	inactive, slight lack of appetite, slight tearing, slight	
	26-Jun-89		10:38	7 / 09:05	9	inactive, slight tearing, moderate disoriented, slight hunched posture, moderate	
	26-Jun-89		10:47	7 / 14:31	9	inactive, slight tearing, moderate, both hunched posture, moderate	
	26-Jun-89		12:56	8 / 10:00	9	inactive, slight tearing, moderate, both hunched posture, slight	
	26-Jun-89		13:03	8 / 11:00	9	inactive, moderate hunched posture, moderate increased respiratory depth, slight tremors, moderate	
	26-Jun-89		13:10	8 / 14:23	9	inactive, slight increased respiratory depth, slight	
	26-Jun-89		13:14	9 / 08:11	9	inactive, slight hunched posture, moderate tearing, moderate, both	
	26-Jun-89		13:24	9 / 09:54	9	hunched posture, moderate disoriented, slight	
	26-Jun-89		13:28	9 / 14:08	9	inactive, slight lack of grooming, slight	
	26-Jun-89		13:34	10 / 07:54	9	tearing, moderate, both	
	26-Jun-89		13:39	10 / 09:23	9	tearing, moderate, both disoriented, slight	
	26-Jun-89		13:42	10 / 14:11	9	tearing, moderate, both excessive thirst, moderate	

# Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010H  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

SUB-ACUTE/

Cage Animal Sex/Group Date and Time Study Day/Time Oper  
 # Number /Subgroup Data was Entered Date was Taken #

Clinical signs / Comments

25	89F00261	M/ 5/5	26-Jun-89	13:48	11 / 07:21	9	tearing, moderate, both hunched posture, slight inactive, moderate lack of appetite, moderate tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	13:52	11 / 10:12	9	tearing, moderate, both hunched posture, slight inactive, moderate lack of appetite, moderate tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	13:59	11 / 14:27	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	14:05	12 / 07:38	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	14:11	12 / 10:51	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	14:25	12 / 14:51	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	14:35	13 / 07:48	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	14:42	13 / 09:48	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	14:46	13 / 14:02	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight
			26-Jun-89	14:50	14 / 11:16	9	tearing, moderate, both hunched posture, moderate inactive, moderate tearing, moderate, both hunched posture, moderate inactive, moderate increased respiratory depth, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
25 89F00261	M/ 5/5	26-Jun-89 14:55	14 / 12:52	9 tearing, moderate, right eye disoriented, moderate wide-legged stance, moderate tearing, moderate, right eye disoriented, slight excessive thirst, moderate tearing, moderate, right eye hunched posture, moderate normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		26-Jun-89 14:59	14 / 16:05	9 wide-legged stance, moderate tearing, moderate, right eye disoriented, slight excessive thirst, moderate tearing, moderate, right eye hunched posture, moderate normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		26-Jun-89 15:01	15 / 07:10	9 tearing, moderate, right eye hunched posture, moderate normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
26 89F00120	M/ 6/1	07-Jun-89 08:01	1 / 09:09	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		07-Jun-89 13:52	1 / 10:09	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		07-Jun-89 14:10	1 / 15:00	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		08-Jun-89 07:55	2 / 08:04	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		08-Jun-89 08:17	2 / 09:36	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		08-Jun-89 08:46	2 / 14:39	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		08-Jun-89 09:09	3 / 07:37	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight
		08-Jun-89 09:50	3 / 10:59	9 normal/no significant signs disoriented, moderate tremors, moderate increased respiration, slight disoriented, moderate tremors, moderate increased respiration, slight wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight uncoordinated, slight increased respiration, slight excessive thirst, moderate hyperactive, moderate red eyes, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group Number /Subgroup	Date and Data was Entered	Time Data was Taken	Study Day/time	Oper #	Clinical signs / Comments
26	89F00120	M/ 6/1	08-Jun-89 09:50	3 / 10:39	9	uncoordinated, slight red eyes, slight excessive thirst, slight tremors, slight
		08-Jun-89 09:57	3 / 14:19		9	red eyes, slight uncoordinated, slight
		08-Jun-89 10:06	4 / 07:17		9	red eyes, slight uncoordinated, slight
		08-Jun-89 10:13	4 / 10:40		9	red eyes, slight uncoordinated, slight disoriented, slight tremors, slight wide-legged stance, slight excessive thirst, slight
		08-Jun-89 10:21	4 / 14:14		9	red eyes, slight disoriented, slight
		08-Jun-89 10:25	5 / 08:04		9	normal/no significant signs
		08-Jun-89 10:30	5 / 12:22		9	normal/no significant signs
		08-Jun-89 10:35	5 / 16:37		9	normal/no significant signs
		08-Jun-89 10:39	6 / 07:49		9	normal/no significant signs
		08-Jun-89 10:41	6 / 10:27		9	normal/no significant signs
		08-Jun-89 10:45	6 / 15:38		9	normal/no significant signs
		08-Jun-89 13:45	7 / 07:27		9	normal/no significant signs
		08-Jun-89 13:50	7 / 10:20		9	disoriented, slight tremors, slight
		08-Jun-89 14:03	7 / 15:13		9	wide-legged stance, slight disoriented, slight
		09-Jun-89 07:45	8 / 08:24		9	uncoordinated, slight
		09-Jun-89 07:55	8 / 11:06		9	normal/no significant signs disoriented, moderate uncoordinated, moderate red eyes, moderate inactive, slight
		09-Jun-89 08:09	8 / 14:16		9	uncoordinated, slight
		09-Jun-89 08:21	9 / 07:53		9	inactive, slight
		09-Jun-89 08:33	9 / 09:55		9	normal/no significant signs disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Nesses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
26	89F00120	M/ 6/1	09-Jun-89 08:33	9 / 09:55	9 uncoordinated, slight red eyes, slight
			09-Jun-89 08:39	9 / 14:31	9 normal/no significant signs
			09-Jun-89 08:48	10 / 06:52	9 normal/no significant signs
			09-Jun-89 09:05	10 / 08:48	9 excessive thirst, severe disoriented, slight
			09-Jun-89 09:14	10 / 14:40	9 normal/no significant signs
			09-Jun-89 09:32	11 / 06:54	9 normal/no significant signs
			09-Jun-89 09:51	11 / 09:06	9 disoriented, slight uncoordinated, slight
			09-Jun-89 10:05	11 / 14:40	9 normal/no significant signs
			09-Jun-89 13:39	12 / 09:15	9 normal/no significant signs
			09-Jun-89 13:45	12 / 11:04	9 disoriented, slight uncoordinated, moderate hunched posture, slight
			09-Jun-89 13:49	12 / 17:00	9 inactive, slight
			09-Jun-89 13:52	13 / 08:55	9 inactive, slight
			09-Jun-89 13:59	13 / 10:18	9 disoriented, slight uncoordinated, slight hunched posture, slight
			09-Jun-89 14:05	13 / 17:00	9 inactive, slight hunched posture, slight
			09-Jun-89 14:09	14 / 07:45	9 hunched posture, slight
			09-Jun-89 14:18	14 / 09:43	9 wide-legged stance, slight inactive, slight
			09-Jun-89 14:25	14 / 14:04	9 disoriented, moderate uncoordinated, moderate
			09-Jun-89 14:31	15 / 07:12	9 wide-legged stance, slight uncoordinated, slight hunched posture, slight
					9 disoriented, slight
					9 hunched posture, slight
					9 red eyes, slight
					9 red eyes, slight
					9 excessive thirst, slight disoriented, slight
27	89F00143	M/ 6/2	09-Jun-89 14:54	1 / 09:01	9 red eyes, slight
			09-Jun-89 15:05	1 / 12:14	9 red eyes, slight excessive thirst, slight disoriented, slight

## Appendix D (cont.):

## INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

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Cage Number	Animal Sex/group Date and Time Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
27 89F00143 M/ 6/2	09-Jun-89 15:05	1 / 12:14	9	tremors, slight
	09-Jun-89 15:11	1 / 15:03	9	excessive thirst, moderate
	13-Jun-89 13:23	2 / 08:00	9	hunched posture, slight red eyes, slight disoriented, slight tremors, moderate
	13-Jun-89 13:32	2 / 11:31	9	loose stool, moderate red eyes, slight disoriented, moderate tremors, slight
				excessive thirst, slight increased respiratory depth, slight uncoordinated, moderate
	13-Jun-89 13:38	2 / 14:36	9	excessive thirst, moderate
	13-Jun-89 13:44	3 / 07:37	9	normal/no significant signs
	13-Jun-89 13:47	3 / 11:32	9	normal/no significant signs
	13-Jun-89 13:50	3 / 14:10	9	normal/no significant signs
	13-Jun-89 15:29	4 / 08:14	9	inactive, slight
	13-Jun-89 15:32	4 / 12:35	9	normal/no significant signs
	13-Jun-89 15:34	4 / 16:48	9	excessive thirst, severe
	13-Jun-89 15:36	5 / 08:00	9	normal/no significant signs
	13-Jun-89 15:38	5 / 11:26	9	normal/no significant signs
	13-Jun-89 15:40	5 / 15:47	9	excessive thirst, moderate
	13-Jun-89 15:43	6 / 07:47	9	normal/no significant signs
	13-Jun-89 15:47	6 / 11:27	9	inactive, slight
	13-Jun-89 15:50	6 / 15:31	9	excessive thirst, slight hunched posture, slight increased respiratory depth, slight
	16-Jun-89 14:09	7 / 08:07	9	inactive, slight hunched posture, slight inactive, slight
				red eyes, slight uncoordinated, slight
	16-Jun-89 14:20	7 / 10:26	9	disoriented, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
27	89F00143	M/ 6/2	16-Jun-89 14:20	7 / 10:26 9 loose stool, moderate uncoordinated, moderate pupils dilated, slight
	16-Jun-89	14:26	7 / 14:35 9	9 wide-legged stance, moderate
	16-Jun-89	14:40	8 / 08:12 9	9 wide-legged stance, slight hyperactive, slight tremors, slight
	16-Jun-89	14:48	8 / 10:39 9	9 wide-legged stance, slight inactive, moderate lack of grooming, severe
	16-Jun-89	14:56	8 / 14:43 9	9 excessive thirst, severe hunched posture, slight
	16-Jun-89	15:21	9 / 07:12 9	9 inactive, slight
	16-Jun-89	15:26	9 / 09:55 9	9 inactive, slight hunched posture, slight
	16-Jun-89	15:29	9 / 14:40 9	9 excessive thirst, moderate
	16-Jun-89	15:33	10 / 07:17 9	9 excessive thirst, moderate
	16-Jun-89	15:40	10 / 09:50 9	9 normal/no significant signs wide-legged stance, slight tremors, moderate
	16-Jun-89	15:44	10 / 14:50 9	9 lack of grooming, severe excessive thirst, moderate hunched posture, slight
	16-Jun-89	15:47	11 / 09:20 9	9 lack of grooming, severe inactive, slight
	16-Jun-89	15:50	11 / 12:00 9	9 inactive, slight
	16-Jun-89	15:54	11 / 17:05 9	9 inactive, slight
	19-Jun-89	07:32	12 / 09:00 9	9 lack of grooming, slight
	19-Jun-89	07:37	12 / 10:45 9	9 inactive, slight
	19-Jun-89	07:41	12 / 17:05 9	9 normal/no significant signs
	19-Jun-89	07:45	13 / 07:50 9	9 lack of grooming, slight
	19-Jun-89	07:51	13 / 10:17 9	9 disoriented, moderate inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SIIB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
27	89F00143 M/ 6/2	19-Jun-89 07:51	13 / 10:17	9 pupils dilated, moderate exophthalmus, moderate disoriented, moderate inactive, moderate pupils dilated, moderate exophthalmus, slight lack of grooming, moderate tremors, slight lack of grooming, moderate hunched posture, slight disoriented, slight disoriented, moderate uncoordinated, slight inactive, slight hunched posture, slight wide-legged stance, moderate inactive, moderate excessive thirst, severe lack of grooming, severe normal/no significant signs disoriented, slight inactive, slight hunched posture, moderate uncoordinated, moderate inactive, slight hunched posture, moderate
		19-Jun-89 07:58	13 / 14:27	9
		19-Jun-89 08:06	14 / 07:47	9
		19-Jun-89 08:24	14 / 09:43	9
		19-Jun-89 08:33	14 / 14:27	9
		19-Jun-89 08:42	15 / 07:13	9
		19-Jun-89 08:56	1 / 08:44	9
		19-Jun-89 09:11	1 / 10:35	9
		19-Jun-89 09:33	1 / 14:46	9
		19-Jun-89 10:14	2 / 08:21	9
		19-Jun-89 13:19	2 / 10:48	9
		19-Jun-89 13:24	2 / 14:45	9
		19-Jun-89 13:31	3 / 07:18	9

28 89F00149 M/ 6/3

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses  
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SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper	Clinical signs / Comments	
# Number /Subgroup Data was Entered Data was Taken #		
23 89F00149 M/ 6/3 19-Jun-89 13:37 3 / 10:07 9	disoriented, slight excessive thirst, severe wide-legged stance, moderate increased respiratory depth, slight	
19-Jun-89 13:44 3 / 14:40 9	excessive thirst, severe inactive, slight	
19-Jun-89 13:50 4 / 07:40 9	normal/no significant signs	
19-Jun-89 14:01 4 / 10:03 9	disoriented, slight uncoordinated, slight excessive thirst, moderate wide-legged stance, moderate	
19-Jun-89 14:08 4 / 14:55 9	inactive, slight hunched posture, slight wide-legged stance, moderate	
19-Jun-89 14:13 5 / 09:25 9	excessive thirst, slight	
19-Jun-89 14:18 5 / 12:10 9	excessive thirst, slight disoriented, slight	
19-Jun-89 14:22 5 / 17:10 9	excessive thirst, slight	
19-Jun-89 14:26 6 / 09:05 9	wide-legged stance, slight inactive, slight	
19-Jun-89 14:30 6 / 10:57 9	disoriented, slight	
19-Jun-89 14:33 6 / 17:10 9	inactive, slight hunched posture, slight	
19-Jun-89 14:35 7 / 07:55 9	normal/no significant signs	
19-Jun-89 14:39 7 / 10:23 9	inactive, slight hunched posture, slight excessive thirst, severe	
19-Jun-89 14:46 7 / 14:04 9	uncoordinated, slight tremors, slight	
19-Jun-89 15:15 8 / 08:10 9	uncoordinated, slight hunched posture, slight wide-legged stance, slight	
19-Jun-89 15:25 8 / 10:30 9	uncoordinated, moderate hunched posture, slight wide-legged stance, moderate	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	#	Clinical signs / Comments
281 89F00149	M/ 6/3	19-Jun-89 15:25	8 / 10:30	9	disoriented, moderate
		19-Jun-89 15:34	8 / 14:31	9	hunched posture, slight
		20-Jun-89 07:54	9 / 07:19	9	excessive thirst, severe
		20-Jun-89 08:05	9 / 09:38	9	hunched posture, moderate
					wide-legged stance, slight
					wide-legged stance, slight
					tremors, slight
					excessive thirst, moderate
					hyperactive, slight
		20-Jun-89 08:10	9 / 14:51	9	excessive thirst, severe
		20-Jun-89 13:18	10 / 08:11	9	wide-legged stance, slight
		20-Jun-89 13:30	10 / 09:35	9	uncoordinated, moderate
					hunched posture, moderate
					disoriented, moderate
		20-Jun-89 13:36	10 / 14:21	9	excessive thirst, moderate
		20-Jun-89 13:41	11 / 08:25	9	hunched posture, moderate
		20-Jun-89 13:47	11 / 09:49	9	excessive thirst, severe
					disoriented, slight
					disoriented, moderate
					uncoordinated, slight
					wide-legged stance, moderate
		20-Jun-89 13:53	11 / 14:19	9	excessive thirst, moderate
		20-Jun-89 13:58	12 / 08:24	9	excessive thirst, severe
		20-Jun-89 14:05	12 / 10:40	9	normal/no significant signs
					hunched posture, slight
					disoriented, slight
		20-Jun-89 14:09	12 / 20:05	9	excessive thirst, severe
		20-Jun-89 14:12	13 / 08:10	9	normal/no significant signs
		20-Jun-89 14:19	13 / 10:10	9	uncoordinated, slight
					hunched posture, slight
					disoriented, slight
					excessive thirst, moderate
		20-Jun-89 14:25	13 / 14:02	9	hunched posture, moderate
					disoriented, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LITTERMAN ARMY INSTITUTE OF RESEARCH  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

Case #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
28	89F00149 M/ 6/3	20-Jun-89 14:25	13 / 14:02	9	inactive, slight
		20-Jun-89 14:31	14 / 08:55	9	normal/no significant signs
		20-Jun-89 14:40	14 / 10:22	9	tremors, moderate disoriented, slight hunched posture, moderate tremors, moderate disoriented, slight hunched posture, moderate
		20-Jun-89 15:05	14 / 15:14	9	tremors, moderate disoriented, slight hunched posture, moderate
29	89F00177 M/ 6/4	20-Jun-89 15:09	15 / 07:25	9	hunched posture, slight
		21-Jun-89 08:58	1 / 08:41	9	normal/no significant signs
		21-Jun-89 09:07	1 / 11:39	9	inactive, moderate
		21-Jun-89 09:23	1 / 15:05	9	excessive thirst, severe
		21-Jun-89 09:29	2 / 07:46	9	inactive, slight
		21-Jun-89 09:54	2 / 11:00	9	excessive thirst, moderate uncoordinated, moderate hunched posture, moderate
		21-Jun-89 10:02	2 / 14:40	9	inactive, slight
		21-Jun-89 10:22	3 / 07:51	9	inactive, slight
		21-Jun-89 10:28	3 / 10:53	9	hunched posture, slight
		21-Jun-89 10:34	3 / 15:11	9	hunched posture, slight excessive thirst, slight
		21-Jun-89 10:39	4 / 09:30	9	inactive, slight
		21-Jun-89 10:44	4 / 12:55	9	normal/no significant signs
		21-Jun-89 10:49	4 / 17:15	9	inactive, slight excessive thirst, slight
		22-Jun-89 09:20	5 / 1:10	9	inactive, slight hunched posture, slight
		22-Jun-89 09:23	5 / 11:35	9	hunched posture, slight
		22-Jun-89 09:25	5 / 17:15	9	inactive, slight
		22-Jun-89 09:28	6 / 08:00	9	hunched posture, slight
		22-Jun-89 09:33	6 / 11:05	9	normal/no significant signs
				9	inactive, slight tremors, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010H

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data Entered	Time Entered	Study Day/Time	Oper Data Was Taken	Clinical signs / Comments
29	89F00177	N/ 6/4	22-Jun-89	09:33	6 / 11:05	9 uncoordinated, moderate hunched posture, moderate disoriented, moderate tremors, slight
			22-Jun-89	09:39	6 / 14:45	9 uncoordinated, moderate hunched posture, slight disoriented, moderate tremors, slight
			22-Jun-89	09:45	7 / 08:40	9 uncoordinated, moderate disoriented, moderate wide-legged stance, moderate uncoordinated, severe disoriented, severe tremors, moderate
			22-Jun-89	09:52	7 / 10:22	9 excessive thirst, severe tremors, slight disoriented, slight hunched posture, slight excessive thirst, slight excessive thirst, severe inactive, moderate
			22-Jun-89	10:03	7 / 14:47	9 uncoordinated, slight hunched posture, slight uncoordinated, slight
			22-Jun-89	10:16	8 / 07:55	9 excessive thirst, slight excessive thirst, severe inactive, moderate
			22-Jun-89	10:21	8 / 11:00	9 uncoordinated, slight hunched posture, slight excessive thirst, slight excessive thirst, severe inactive, moderate
			22-Jun-89	10:26	8 / 15:09	9 uncoordinated, slight hunched posture, slight uncoordinated, slight
			22-Jun-89	13:33	9 / 08:30	9 uncoordinated, moderate hunched posture, moderate uncoordinated, moderate
			22-Jun-89	13:38	9 / 10:39	9 excessive thirst, severe white ocular discharge, slight, left eye
			22-Jun-89	13:44	9 / 14:40	9 uncoordinated, slight hunched posture, slight excessive thirst, severe white ocular discharge, slight, left eye
			22-Jun-89	13:47	10 / 08:22	9 uncoordinated, moderate tremors, slight
			22-Jun-89	13:55	10 / 10:24	9 uncoordinated, slight hunched posture, moderate uncoordinated, slight
			22-Jun-89	14:01	10 / 14:38	9 uncoordinated, slight hunched posture, moderate uncoordinated, slight
			22-Jun-89	14:07	11 / 08:40	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	g	
29	89F00177 M/ 6/4	22-Jun-89 14:13	11 / 11:40	9	excessive thirst, moderate tremors, moderate disoriented, moderate uncoordinated, slight
		22-Jun-89 14:17	11 / 20:19	9	disoriented, slight
		22-Jun-89 14:24	12 / 08:28	9	normal/no significant signs
		22-Jun-89 14:31	12 / 11:12	9	excessive thirst, moderate tremors, moderate disoriented, moderate uncoordinated, moderate excessive thirst, slight tremors, slight
		22-Jun-89 14:37	12 / 14:13	9	disoriented, moderate uncoordinated, moderate excessive thirst, slight tremors, slight
		22-Jun-89 14:51	13 / 09:14	9	disoriented, slight uncoordinated, slight hunched posture, slight tremors, slight
		22-Jun-89 14:58	13 / 11:10	9	disoriented, moderate hunched posture, moderate inactive, moderate
		22-Jun-89 15:02	13 / 15:30	9	disoriented, moderate hunched posture, moderate inactive, moderate
		22-Jun-89 15:06	14 / 08:05	9	disoriented, moderate inactive, slight lameness, moderate, rt fore leg
		22-Jun-89 15:12	14 / 09:49	9	disoriented, slight inactive, slight lameness, severe, rt fore leg
		22-Jun-89 15:19	14 / 15:01	9	hunched posture, slight inactive, moderate lameness, severe, rt fore leg
					depressed, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/Time Oper Data was Taken	#	Clinical signs / Comments
29	89F00177	M/ 6/4	22-Jun-89 15:25	15 / 07:18	9	laeness, severe, rt fore leg disoriented, slight hunched posture, slight normal/no significant signs
30	89F00263	M/ 6/5	26-Jun-89 07:59	1 / 08:00	9	normal/no significant signs
			26-Jun-89 08:05	1 / 09:56	9	disoriented, slight pupils dilated, moderate
			26-Jun-89 08:09	1 / 14:00	9	normal/no significant signs
			26-Jun-89 08:13	2 / 07:17	9	normal/no significant signs
			26-Jun-89 08:18	2 / 09:17	9	disoriented, slight hyperactive, moderate tremors, moderate
			26-Jun-89 08:22	2 / 14:00	9	inactive, slight
			26-Jun-89 08:27	3 / 08:00	9	disoriented, moderate hyperactive, slight tremors, slight
			26-Jun-89 09:12	3 / 10:16	9	uncoordinated, moderate disoriented, slight pupils dilated, slight tremors, slight
			26-Jun-89 09:25	3 / 14:08	9	uncoordinated, moderate disoriented, moderate pupils dilated, moderate hyperactive, slight loose stool, severe
			26-Jun-89 09:35	4 / 07:39	9	normal/no significant signs
			26-Jun-89 09:39	4 / 12:07	9	pupils dilated, slight hunched posture, slight
			26-Jun-89 09:44	4 / 14:41	9	hyperactive, slight
			26-Jun-89 09:50	5 / 07:32	9	hyperactive, slight
			26-Jun-89 10:02	5 / 10:57	9	hyperactive, slight pupils dilated, slight uncoordinated, slight
			26-Jun-89 10:07	5 / 14:01	9	hunched posture, slight hyperactive, slight pupils dilated, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Raw Data Listings of Clinical Signs Without Masses

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Cage Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

30	89F00263	M	6/5	26-Jun-89	10:10	6 / 08:25	9	Hyperactive, slight pupils dilated, slight inactive, slight lameness, moderate, left front leg lameness, severe, left front leg lameness, severe, left front leg disoriented, moderate hyperactive, moderate tremors, slight excessive thirst, moderate
26-Jun-89	10:16	6 / 10:01	9	pupils dilated, slight				
26-Jun-89	10:24	6 / 14:20	9	inactive, slight				
26-Jun-89	10:31	7 / 07:18	9	lameness, moderate, left front leg				
26-Jun-89	10:39	7 / 09:08	9	lameness, severe, left front leg lameness, severe, left front leg disoriented, moderate hyperactive, moderate tremors, slight excessive thirst, moderate				
26-Jun-89	10:48	7 / 14:32	9	lameness, severe, rt fore leg				
26-Jun-89	12:57	8 / 09:32	9	lameness, severe, rt fore leg				
26-Jun-89	13:03	8 / 10:32	9	lameness, severe, rt fore leg hunched posture, slight disoriented, slight				
26-Jun-89	13:10	8 / 14:23	9	lameness, severe, rt fore leg				
26-Jun-89	13:15	9 / 08:12	9	lameness, severe, rt fore leg				
26-Jun-89	13:24	9 / 09:59	9	hunched posture, moderate disoriented, slight increased respiration, slight				
26-Jun-89	13:29	9 / 14:08	9	excessive thirst, moderate				
26-Jun-89	13:35	10 / 07:55	9	lameness, severe, rt fore leg				
26-Jun-89	13:39	10 / 09:30	9	lameness, severe, rt fore leg disoriented, slight				
26-Jun-89	13:42	10 / 14:12	9	lameness, severe, rt fore leg				
26-Jun-89	13:48	11 / 07:22	9	excessive thirst, severe lameness, moderate, rt fore leg				
26-Jun-89	13:53	11 / 10:25	9	disoriented, slight disoriented, moderate hunched posture, slight				
26-Jun-89	13:59	11 / 14:28	9	excessive thirst, moderate hunched posture, slight				
26-Jun-89	14:06	12 / 07:39	9	excessive thirst, slight hunched posture, slight				

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89			PRINTED: 26-Oct-89 Page: 87 SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments			
30	89F00263	M/ 6/5	26-Jun-89 14:06	12 / 07:39	9	lack of appetite, moderate		
		26-Jun-89 14:12	12 / 11:00	9	hunched posture, moderate disoriented, moderate increased respiration, severe			
26-Jun-89	14:26	12 / 14:52	9	swollen testes, moderate hunched posture, slight swollen testes, moderate				
26-Jun-89	14:35	13 / 07:47	9	edema ventral, severe hunched posture, slight swollen testes, moderate				
26-Jun-89	14:42	13 / 10:15	9	edema ventral, moderate hunched posture, moderate swollen testes, moderate				
26-Jun-89	14:46	13 / 14:03	9	edema ventral, moderate disoriented, slight hunched posture, moderate				
26-Jun-89	14:51	14 / 11:16	9	swollen testes, slight edema ventral, moderate disoriented, slight				
26-Jun-89	14:55	14 / 12:49	9	hunched posture, moderate swollen testes, slight edema ventral, moderate				
26-Jun-89	14:59	14 / 14:06	9	inactive, slight disoriented, slight tremors, slight				
26-Jun-89	15:01	15 / 07:15	9	normal/no significant signs inactive, slight				
07-Jun-89	07:59	1 / 08:31	9	normal/no significant signs disoriented, moderate				
07-Jun-89	13:53	1 / 09:31	9	hunched posture, moderate inactive, moderate increased respiration, moderate				
07-Jun-89	14:13	1 / 14:55	9	red eyes, moderate disoriented, moderate hunched posture, slight				
31	89F00115	M/ 7/1						

**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

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Study Start Date: 25-Apr-89

Cage #	Animal Sex/group	Date Data was Entered	Time Study Data was Taken	Day/time Oper	Clinical signs / Comments
31	89F00115	M/ 7/1	07-Jun-89 14:13	1 / 14:55	9 increased respiration, slight

31 89F00115	M/ 7/1	07-Jun-89	14:13	1 / 14:55	9	increased respiration, slight red eyes, moderate hyperactive, slight uncoordinated, moderate wide-legged stance, moderate disoriented, slight red eyes, slight uncoordinated, slight wide-legged stance, slight disoriented, slight red eyes, slight uncoordinated, slight inactive, moderate disoriented, slight red eyes, slight uncoordinated, slight increased respiration, slight hyperactive, slight wide-legged stance, slight hyperactive, slight wide-legged stance, slight wide-legged stance, slight uncoordinated, moderate disoriented, moderate uncoordinated, slight disoriented, slight uncoordinated, slight disoriented, slight hyperactive, slight wide-legged stance, slight tremors, slight
		08-Jun-89	07:56	2 / 08:00	9	
		08-Jun-89	08:19	2 / 09:25	9	
		08-Jun-89	08:47	2 / 14:31	9	
		08-Jun-89	09:09	3 / 07:30	9	
		08-Jun-89	09:50	3 / 10:55	9	
		08-Jun-89	09:57	3 / 14:10	9	
		08-Jun-89	10:06	4 / 07:38	9	
		08-Jun-89	10:15	4 / 10:31	9	
		08-Jun-89	10:21	4 / 14:15	9	
		08-Jun-89	10:25	5 / 08:01	9	
		08-Jun-89	10:31	5 / 10:05	9	
		08-Jun-89	10:35	5 / 16:33	9	
		08-Jun-89	10:39	6 / 07:46	9	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Date Listing by Animal

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/Time Oper Data was Taken	#	Clinical signs / Comments
31 89F00115	M/ 7/1	08-Jun-89	10:42	6 / 10:16	9	normal/no significant signs
		08-Jun-89	10:45	6 / 15:35	9	normal/no significant signs
		08-Jun-89	13:45	7 / 07:24	9	normal/no significant signs
		08-Jun-89	13:50	7 / 10:05	9	disoriented, slight inactive, moderate
		08-Jun-89	14:03	7 / 15:08	9	hunched posture, slight inactive, moderate
		09-Jun-89	07:46	8 / 07:18	9	wide-legged stance, moderate uncoordinated, moderate
		09-Jun-89	07:56	8 / 11:01	9	uncoordinated, slight disoriented, moderate
		09-Jun-89	08:09	8 / 14:06	9	hunched posture, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight inactive, slight
		09-Jun-89	08:22	9 / 07:47	9	loose stool, slight
		09-Jun-89	08:34	9 / 09:12	9	inactive, moderate disoriented, slight
						hunched posture, moderate wide-legged stance, slight uncoordinated, slight
		09-Jun-89	08:39	9 / 14:28	9	hunched posture, moderate
		09-Jun-89	08:49	10 / 06:45	9	hunched posture, slight inactive, slight
		09-Jun-89	09:06	10 / 08:25	9	disoriented, slight uncoordinated, slight
		09-Jun-89	09:14	10 / 14:40	9	inactive, slight
		09-Jun-89	09:32	11 / 06:50	9	normal/no significant signs
		09-Jun-89	09:52	11 / 08:56	9	inactive, slight
		09-Jun-89	10:05	11 / 14:38	9	inactive, slight
		09-Jun-89	13:39	12 / 09:09	9	disoriented, slight
		09-Jun-89	13:45	12 / 10:39	9	hunched posture, slight wide-legged stance, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
31	89F00115 M/ 7/1	09-Jun-89 13:45	12 / 10:39	uncoordinated, slight
		09-Jun-89 13:49	12 / 17:00	inactive, slight
		09-Jun-89 13:53	13 / 08:55	normal/no significant signs
		09-Jun-89 14:00	13 / 10:08	disoriented, slight
				hunched posture, slight
		09-Jun-89 14:05	13 / 17:00	normal/no significant signs
		09-Jun-89 14:09	14 / 07:45	normal/no significant signs
		09-Jun-89 14:18	14 / 09:36	inactive, slight
				increased respiration, slight
				wide-legged stance, slight
				uncoordinated, slight
		09-Jun-89 14:25	14 / 14:02	inactive, slight
				increased respiration, slight
		09-Jun-89 14:33	15 / 07:06	inactive, slight
				hunched posture, slight
				white discharge from eyes, moderate
		09-Jun-89 14:54	1 / 08:58	loose stool, slight
		09-Jun-89 15:06	1 / 11:26	startles
				disoriented, moderate
				hyperactive, slight
				startles, slight
		09-Jun-89 15:12	1 / 14:31	squinting, slight
				red eyes, moderate
		13-Jun-89 13:23	2 / 07:52	startles, slight
				squinting, slight
				red eyes, moderate
		13-Jun-89 13:33	2 / 11:59	disoriented, slight
				startles, moderate
				squinting, slight
				red eyes, moderate
				loose stool, slight
		13-Jun-89 13:38	2 / 14:31	normal/no significant signs
		13-Jun-89 13:45	3 / 07:32	normal/no significant signs
		13-Jun-89 13:50	3 / 14:03	normal/no significant signs
		13-Jun-89 15:29	4 / 08:11	normal/no significant signs
		13-Jun-89 15:32	4 / 13:41	normal/no significant signs
		13-Jun-89 15:34	4 / 16:45	normal/no significant signs

32 89F00137 M/ 7/2

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Raw Data Listings of Clinical Signs Without Masses  
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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
32	89F00137	M/ 7/2			
		13-Jun-89 15:36	5 / 07:56	9	normal/no significant signs
		13-Jun-89 15:38	5 / 11:05	9	inactive, slight
		13-Jun-89 15:40	5 / 15:44	9	normal/no significant signs
		13-Jun-89 15:43	6 / 07:39	9	normal/no significant signs
		13-Jun-89 15:47	6 / 11:09	9	disoriented, slight
		13-Jun-89 15:51	6 / 15:24	9	normal/no significant signs
		16-Jun-89 14:09	7 / 07:58	9	normal/no significant signs
		16-Jun-89 14:20	7 / 10:15	9	disoriented, slight
		16-Jun-89 14:27	7 / 14:27	9	disoriented, slight startles, slight uncoordinated, slight
		16-Jun-89 14:40	8 / 08:06	9	hunched posture, slight
		16-Jun-89 14:48	8 / 10:30	9	hunched posture, slight
		16-Jun-89 14:56	8 / 14:40	9	normal/no significant signs
		16-Jun-89 15:21	9 / 07:04	9	normal/no significant signs
		16-Jun-89 15:26	9 / 09:32	9	disoriented, slight
		16-Jun-89 15:30	9 / 14:40	9	normal/no significant signs
		16-Jun-89 15:33	10 / 07:10	9	normal/no significant signs
		16-Jun-89 15:40	10 / 09:36	9	hunched posture, slight disoriented, slight inactive, slight
		16-Jun-89 15:44	10 / 14:47	9	normal/no significant signs
		16-Jun-89 15:47	11 / 09:20	9	inactive, slight
		16-Jun-89 15:50	11 / 11:53	9	inactive, slight
		16-Jun-89 15:54	11 / 17:05	9	hunched posture, slight
		19-Jun-89 07:32	12 / 09:00	9	inactive, slight
		19-Jun-89 07:37	12 / 10:38	9	normal/no significant signs hunched posture, slight inactive, slight
		19-Jun-89 07:41	12 / 17:05	9	uncoordinated, moderate
		19-Jun-89 07:45	13 / 07:50	9	wide-legged stance, moderate inactive, slight
		19-Jun-89 07:52	13 / 10:05	9	normal/no significant signs inactive, slight uncoordinated, moderate

**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

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Study Start Date: 25-Apr-89

Cage #	Animal Sex/group Number /Subgroup	Date	Time Data was Entered	Study Day/Time Oper Data was Taken	g	Clinical signs / Comments
32	89F00137 M/ 7/2	19-Jun-89	07:52	13 / 10:05	9	wide-legged stance, moderate
		19-Jun-89	07:58	13 / 14:21	9	disoriented, slight uncoordinated, slight wide-legged stance, slight wide-legged stance, slight hunched posture, slight tremors, slight increased respiration, slight wide-legged stance, slight hunched posture, moderate increased respiration, slight disoriented, slight uncoordinated, slight startles, moderate normal/no significant signs disoriented, slight hunched posture, slight inactive, slight
33	89F00171 M/ 7/4	21-Jun-89	08:58	1 / 08:35	9	normal/no significant signs
		21-Jun-89	09:08	1 / 11:27	9	normal/no significant signs
		21-Jun-89	09:24	1 / 15:00	9	inactive, moderate
		21-Jun-89	09:32	2 / 07:40	9	disoriented, slight uncoordinated, slight squinting, moderate, right eye red discharge, severe, right eye disoriented, moderate uncoordinated, slight red discharge, severe, right eye inactive, slight red discharge, slight red discharge, slight, right eye normal/no significant signs inactive, slight disoriented, slight uncoordinated, moderate inactive, slight
		21-Jun-89	09:54	2 / 10:46	9	
		21-Jun-89	10:03	2 / 14:40	9	
		21-Jun-89	10:22	3 / 07:45	9	
		21-Jun-89	10:29	3 / 10:28	9	
		21-Jun-89	10:34	3 / 15:07	9	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Cage #	Animal Sex/group Date and Time	Raw Data Listings of Clinical Signs Without Messes	Study Number: 88010M	Study Start Date: 25-Apr-89	Clinical signs / Comments
#	Number /Subgroup Data was Entered	Data was Taken			
33 89F00171 M/ 7/4	21-Jun-89 10:40	4 / 09:30	9		inactive, slight
	21-Jun-89 10:44	4 / 12:52	9		disoriented, slight
	21-Jun-89 10:49	4 / 17:15	9		uncoordinated, slight
	22-Jun-89 09:20	5 / 09:10	9		inactive, slight
	22-Jun-89 09:23	5 / 11:27	9		inactive, slight
					disoriented, slight
					uncoordinated, slight
	22-Jun-89 09:25	5 / 17:15	9		normal/no significant signs
	22-Jun-89 09:28	6 / 08:00	9		inactive, slight
	22-Jun-89 09:33	6 / 10:52	9		inactive, slight
					disoriented, moderate
	22-Jun-89 09:40	6 / 14:34	9		uncoordinated, moderate
					inactive, slight
					disoriented, slight
	22-Jun-89 09:46	7 / 07:35	9		uncoordinated, slight
					disoriented, slight
	22-Jun-89 09:54	7 / 10:12	9		uncoordinated, slight
					disoriented, severe
	22-Jun-89 10:03	7 / 14:43	9		uncoordinated, moderate
	22-Jun-89 10:16	8 / 07:45	9		normal/no significant signs
					disoriented, severe
					uncoordinated, severe
					tremors, moderate
	22-Jun-89 10:22	8 / 10:49	9		increased respiration, slight
					disoriented, slight
	22-Jun-89 10:26	8 / 15:06	9		normal/no significant signs
	22-Jun-89 13:33	9 / 08:28	9		normal/no significant signs
	22-Jun-89 13:38	9 / 10:22	9		disoriented, slight
					tremors, moderate
					hunched posture, slight
	22-Jun-89 13:44	9 / 14:35	9		increased respiration, slight
	22-Jun-89 13:48	10 / 07:18	9		normal/no significant signs
	22-Jun-89 13:56	10 / 10:18	9		uncoordinated, slight
					disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
33	89F00171 M/ 7/4	22-Jun-89 13:56	10 / 10:18	9	tremors, moderate
		22-Jun-89 14:01	10 / 14:32	9	disoriented, moderate
		22-Jun-89 14:08	11 / 08:36	9	disoriented, slight
		22-Jun-89 14:13	11 / 11:21	9	disoriented, moderate
					uncoordinated, slight
		22-Jun-89 14:18	11 / 20:15	9	disoriented, slight
		22-Jun-89 14:24	12 / 08:23	9	disoriented, slight
		22-Jun-89 14:32	12 / 10:54	9	disoriented, slight
		22-Jun-89 14:37	12 / 14:10	9	disoriented, slight
					hunched posture, slight
		22-Jun-89 14:51	13 / 09:09	9	normal/no significant signs
		22-Jun-89 14:58	13 / 10:50	9	hunched posture, slight
					disoriented, moderate
		22-Jun-89 15:03	13 / 15:25	9	disoriented, slight
					uncoordinated, slight
					tremors, slight
		22-Jun-89 15:06	14 / 08:01	9	disoriented, slight
					uncoordinated, slight
		22-Jun-89 15:12	14 / 09:39	9	disoriented, moderate
					uncoordinated, slight
		22-Jun-89 15:20	14 / 14:55	9	disoriented, moderate
					uncoordinated, slight
					excessive thirst, severe
		22-Jun-89 15:25	15 / 07:12	9	disoriented, slight
		21-Jun-89 08:58	1 / 08:31	9	normal/no significant signs
		21-Jun-89 09:08	1 / 11:17	9	normal/no significant signs
		21-Jun-89 09:24	1 / 14:55	9	normal/no significant signs
		21-Jun-89 09:33	2 / 07:34	9	increased respiratory depth, slight
		21-Jun-89 09:55	2 / 10:31	9	inactive, slight
					hunched posture, slight
		21-Jun-89 10:07	2 / 14:40	9	inactive, slight
					excessive thirst, severe
		21-Jun-89 10:23	3 / 07:41	9	inactive, slight
					hunched posture, slight
34	89F00164 M/ 7/4				

Appendix D (cont.). INDIVIDUAL ANIMAL HISTORIES

LEETMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

New Data Listings of Clinical Signs without Cases  
 Study Number: 880124  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date and Time Entered	Study Day/time Cper Date was Taken	Clinical signs / Comments
34	89F00164 M/ 7/4	21-Jun-89 10:29	3 / 10:22	9 inactive, moderate hunched posture, slight increased respiratory depth, slight
		21-Jun-89 10:35	3 / 10:03	9 inactive, slight
		21-Jun-89 10:40	4 / 09:40	9 inactive, slight
		21-Jun-89 10:45	4 / 12:39	9 inactive, slight
		21-Jun-89 10:50	4 / 17:15	9 inactive, slight
		22-Jun-89 09:20	5 / 09:10	9 inactive, slight
		22-Jun-89 09:23	5 / 11:19	9 inactive, slight
		22-Jun-89 09:25	5 / 17:15	9 hunched posture, slight inactive, slight
		22-Jun-89 09:28	6 / 08:00	9 hunched posture, slight
		22-Jun-89 09:33	6 / 10:45	9 hunched posture, slight
		22-Jun-89 09:41	6 / 14:27	9 inactive, slight
		22-Jun-89 09:45	7 / 05:30	9 hunched posture, moderate inactive, slight
		22-Jun-89 09:55	7 / 09:57	9 hunched posture, moderate increased respiratory depth, slight startles, moderate uncoordinated, moderate tremors, slight
		22-Jun-89 10:04	7 / 14:41	9 normal/no significant signs
		22-Jun-89 10:16	8 / 07:36	9 normal/no significant signs
		22-Jun-89 10:22	8 / 10:35	9 normal/no significant signs
		22-Jun-89 10:26	8 / 15:05	9 disoriented, moderate
		22-Jun-89 13:33	9 / 08:23	9 inactive, slight
		22-Jun-89 13:39	9 / 10:15	9 disoriented, moderate
		22-Jun-89 13:44	9 / 14:31	9 hunched posture, moderate inactive, moderate disoriented, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date and Number /Subgroup	Date Entered	Time Data Was Taken	Study Day/time Oper	Clinical signs / Comments
34	89F00164 M/ 7/4	22-Jun-89	13:44	9 / 14:31	9 hunched posture, moderate
		22-Jun-89	13:48	10 / 08:12	9 inactive, slight increased respiratory depth, slight
		22-Jun-89	13:56	10 / 10:10	9 inactive, slight increased respiratory depth, slight disoriented, moderate hunched posture, moderate tremors, moderate uncoordinated, moderate
		22-Jun-89	14:02	10 / 14:29	9 inactive, slight increased respiratory depth, slight disoriented, moderate
		22-Jun-89	14:08	11 / 08:32	9 inactive, moderate
		22-Jun-89	14:13	11 / 11:10	9 inactive, moderate
		22-Jun-89	14:18	11 / 20:11	9 inactive, moderate
		22-Jun-89	14:24	12 / 08:17	9 inactive, moderate
		22-Jun-89	14:32	12 / 10:42	9 disoriented, slight depressed, moderate
		22-Jun-89	14:37	12 / 14:07	9 inactive, moderate disoriented, slight depressed, moderate
		22-Jun-89	14:52	13 / 09:05	9 inactive, moderate disoriented, slight
		22-Jun-89	14:58	13 / 10:41	9 inactive, moderate disoriented, slight
		22-Jun-89	15:03	13 / 15:22	9 inactive, moderate
		22-Jun-89	15:07	14 / 07:57	9 inactive, moderate hunched posture, moderate depressed, moderate
		22-Jun-89	15:13	14 / 09:56	9 lack of appetite, moderate inactive, moderate
		22-Jun-89	15:20	14 / 14:50	9 hunched posture, moderate inactive, moderate hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
34	89F00164	M/ 7/4	22-Jun-89 15:20	14 / 14:50	9 lameness, severe, rt fore leg
			22-Jun-89 15:25	15 / 07:09	9 hunched posture, moderate lameness, severe, rt fore leg
35	89F00264	M/ 7/5	26-Jun-89 08:01	1 / 08:00	9 normal/no significant signs
			26-Jun-89 08:06	1 / 10:05	9 trauma to mouth - caught on collar hunched posture, moderate inactive, slight
			26-Jun-89 08:09	1 / 14:00	9 trauma to mouth - caught on collar hunched posture, slight inactive, slight
			26-Jun-89 08:13	2 / 07:19	9 normal/no significant signs
			26-Jun-89 08:18	2 / 09:24	9 disoriented, slight uncoordinated, slight
			26-Jun-89 08:23	2 / 14:00	9 inactive, slight
			26-Jun-89 08:27	3 / 08:02	9 normal/no significant signs
			26-Jun-89 09:13	3 / 10:25	9 hunched posture, moderate inactive, slight
			26-Jun-89 09:25	3 / 14:09	9 hunched posture, slight disoriented, slight
			26-Jun-89 09:36	4 / 07:40	9 normal/no significant signs
			26-Jun-89 09:40	4 / 12:15	9 inactive, slight uncoordinated, slight
			26-Jun-89 09:44	4 / 14:42	9 inactive, slight
			26-Jun-89 09:52	5 / 07:34	9 inactive, slight uncoordinated, slight
			26-Jun-89 10:03	5 / 11:05	9 inactive, moderate disoriented, slight
			26-Jun-89 10:07	5 / 14:02	9 inactive, slight hunched posture, slight
			26-Jun-89 10:11	6 / 08:25	9 hunched posture, slight
			26-Jun-89 10:16	6 / 10:00	9 hunched posture, slight
			26-Jun-89 10:25	6 / 14:22	9 hunched posture, slight
			26-Jun-89 10:31	7 / 07:19	9 hunched posture, slight
			26-Jun-89 10:40	7 / 09:24	9 disoriented, slight
			26-Jun-89 10:49	7 / 14:44	9 red eyes, moderate, left eye
			26-Jun-89 12:57	8 / 10:09	9 normal/no significant signs



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
35	89F00264	M/ 7/5			
		26-Jun-89 13:04	8 / 11:09	9	disoriented, slight
		26-Jun-89 13:10	8 / 14:24	9	normal/no significant signs
		26-Jun-89 13:15	9 / 08:13	9	disoriented, slight
		26-Jun-89 13:25	9 / 10:03	9	inactive, moderate
		26-Jun-89 13:29	9 / 14:10	9	normal/no significant signs
		26-Jun-89 13:35	10 / 07:56	9	inactive, slight
		26-Jun-89 13:39	10 / 09:39	9	inactive, slight
					disoriented, slight
		26-Jun-89 13:42	10 / 14:12	9	normal/no significant signs
		26-Jun-89 13:49	11 / 07:21	9	lameness, severe, rt fore leg
		26-Jun-89 13:53	11 / 10:25	9	lameness, severe, rt fore leg
					inactive, slight
					disoriented, slight
		26-Jun-89 14:00	11 / 14:28	9	lameness, severe, rt fore leg
					disoriented, slight
		26-Jun-89 14:06	12 / 07:39	9	lameness, severe, rt fore leg
		26-Jun-89 14:12	12 / 11:00	9	lameness, severe, rt fore leg
					inactive, slight
					disoriented, slight
		26-Jun-89 14:27	12 / 14:52	9	lameness, severe, rt fore leg
					disoriented, slight
		26-Jun-89 14:35	13 / 07:48	9	lameness, severe, rt fore leg
		26-Jun-89 14:43	13 / 10:00	9	lameness, severe, rt fore leg
					disoriented, slight
					pupils dilated, moderate
		26-Jun-89 14:47	13 / 14:04	9	lameness, severe, rt fore leg
					disoriented, slight
					pupils dilated, moderate
		26-Jun-89 14:51	14 / 11:18	9	lameness, slight, rt fore leg
					disoriented, slight
		26-Jun-89 14:56	14 / 12:50	9	inactive, moderate
					hunched posture, moderate
					increased respiratory depth, slight
		26-Jun-89 14:59	14 / 16:07	9	normal/no significant signs
		26-Jun-89 15:02	15 / 08:11	9	hunched posture, moderate

**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time	Oper #	Clinical signs / Comments
35	89F00264	M/ 7/5-	26-Jun-89 15:02	9	inactive, slight
36	89F00125	M/ 8/1	07-Jun-89 07:59	9	normal/no significant signs
			07-Jun-89 13:54	9	disoriented, moderate tremors, slight
			07-Jun-89 14:17	9	hyperactive, moderate disoriented, moderate red eyes, moderate startles, slight uncoordinated, slight
			08-Jun-89 07:57	9	disoriented, slight hyperactive, slight red eyes, slight uncoordinated, slight wide-legged stance, slight disoriented, slight hyperactive, slight red eyes, slight uncoordinated, slight
			08-Jun-89 08:19	9	wide-legged stance, slight disoriented, slight hyperactive, slight red eyes, slight uncoordinated, slight wide-legged stance, slight tremors, slight startles, slight
			08-Jun-89 08:47	9	disoriented, slight hyperactive, slight red eyes, slight uncoordinated, slight wide-legged stance, slight hyperactive, slight wide-legged stance, slight tremors, slight
			08-Jun-89 09:10	9	hyperactive, slight wide-legged stance, slight tremors, slight startles, slight
			08-Jun-89 09:51	9	hyperactive, slight tremors, slight startles, slight hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Data Listing by Animal

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Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
36	89F00125	M/ 8/1	08-Jun-89	10:07	4 / 07:25 9 hyperactive, slight uncoordinated, slight
			08-Jun-89	10:15	4 / 10:45 9 uncoordinated, slight
			08-Jun-89	10:21	4 / 14:20 9 uncoordinated, slight disoriented, slight
			08-Jun-89	10:25	5 / 08:06 9 normal/no significant signs
			08-Jun-89	10:31	5 / 12:49 9 normal/no significant signs
			08-Jun-89	10:36	5 / 16:39 9 normal/no significant signs
			08-Jun-89	10:39	6 / 07:52 9 normal/no significant signs
			08-Jun-89	10:42	6 / 10:38 9 normal/no significant signs
			08-Jun-89	10:45	6 / 15:40 9 normal/no significant signs
			08-Jun-89	13:45	7 / 07:30 9 normal/no significant signs
			08-Jun-89	13:51	7 / 10:39 9 disoriented, slight hyperactive, slight uncoordinated, slight
			08-Jun-89	14:04	7 / 15:16 9 disoriented, moderate hyperactive, slight uncoordinated, slight
			09-Jun-89	07:47	8 / 08:27 9 disoriented, slight hyperactive, slight uncoordinated, slight hunched posture, slight tremors, slight
			09-Jun-89	07:57	8 / 11:21 9 disoriented, slight hyperactive, slight uncoordinated, moderate hunched posture, moderate tremors, slight
			09-Jun-89	08:10	8 / 14:19 9 disoriented, slight hyperactive, slight uncoordinated, moderate congested, slight
			09-Jun-89	08:22	9 / 07:56 9 hunched posture, slight
			09-Jun-89	08:35	9 / 10:08 9 disoriented, moderate uncoordinated, moderate

## Appendix D (cont.):

## INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

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SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Date was Entered Date was Taken #

Clinical signs / Comments

36	89F00125	M/ 8/1	09-Jun-89	08:35	9 / 10:08	9	hyperactive, moderate tremors, moderate red swollen testicles, moderate, left testicle
	09-Jun-89		08:43		9 / 14:53	9	hyperactive, slight red swollen testicles, moderate, left testicle
	09-Jun-89		08:50		10 / 06:55	9	hyperactive, slight red swollen testicles, moderate, left testicle tremors, moderate
	09-Jun-89		09:07		10 / 09:10	9	uncoordinated, slight red swollen testicles, moderate, left testicle disoriented, moderate
							uncoordinated, moderate hyperactive, moderate hunched posture, moderate
	09-Jun-89		09:14		10 / 14:40	9	increased respiratory depth, moderate
	09-Jun-89		09:33		11 / 07:00	9	red swollen testicles, moderate, left testicle uncoordinated, slight hyperactive, slight
	09-Jun-89		09:57		11 / 09:25	9	aggressive, moderate hyperactive, slight aggressive, moderate
	09-Jun-89		10:06		11 / 14:43	9	edema ventral, moderate aggressive, moderate
	09-Jun-89		13:39		12 / 09:18	9	edema ventral, moderate aggressive, moderate
	09-Jun-89		13:45		12 / 11:31	9	edema ventral, moderate aggressive, moderate
	09-Jun-89		13:50		12 / 17:00	9	edema ventral, moderate aggressive, moderate
	09-Jun-89		13:53		13 / 08:55	9	edema ventral, moderate aggressive, moderate
	09-Jun-89		14:00		13 / 10:25	9	edema ventral, moderate aggressive, moderate disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
36	89F00125 M/ 8/1	09-Jun-89 14:06	13 / 17:00	9 aggressive, moderate edema ventral, moderate
		09-Jun-89 14:09	14 / 07:45	9 aggressive, moderate edema ventral, moderate
		09-Jun-89 14:20	14 / 11:30	9 edema testes, moderate hunched posture, moderate disoriented, moderate
		09-Jun-89 14:25	14 / 14:11	9 edema testes, moderate hunched posture, moderate disoriented, slight
		09-Jun-89 14:35	15 / 07:16	9 edema testes, moderate hunched posture, slight increased respiration, slight purple discolor left testicle, severe
37	89F00145 M/ 8/2	09-Jun-89 14:55	1 / 09:03	9 pupils dilated, moderate
		09-Jun-89 15:06	1 / 12:15	9 pupils dilated, moderate disoriented, slight
		09-Jun-89 15:12	1 / 15:04	9 pupils dilated, moderate disoriented, slight
		13-Jun-89 13:24	2 / 08:15	9 inactive, moderate
		13-Jun-89 13:34	2 / 11:25	9 disoriented, moderate pupils dilated, slight uncoordinated, moderate hyperactive, slight
		13-Jun-89 13:38	2 / 14:39	9 normal/no significant signs
		13-Jun-89 13:45	3 / 07:41	9 normal/no significant signs
		13-Jun-89 13:47	3 / 11:34	9 normal/no significant signs
		13-Jun-89 13:50	3 / 14:11	9 normal/no significant signs
		13-Jun-89 15:30	4 / 08:15	9 hunched posture, slight
		13-Jun-89 15:32	4 / 14:44	9 normal/no significant signs
		13-Jun-89 15:34	4 / 16:50	9 normal/no significant signs
		13-Jun-89 15:36	5 / 08:01	9 normal/no significant signs
		13-Jun-89 15:38	5 / 11:33	9 normal/no significant signs
		13-Jun-89 15:40	5 / 15:48	9 normal/no significant signs
		13-Jun-89 15:43	6 / 07:49	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 103 SUB-ACUTE/	
Cage #	Animal Sex/group	Date Entered	Time Data Was Taken	Study Day/time	Oper	Clinical signs / Comments	
37	89F00145	M/ 8/2					
		13-Jun-89	15:47	6 / 11:27	9	inactive, slight	
		13-Jun-89	15:51	6 / 15:32	9	pupils dilated, moderate disoriented, moderate inactive, moderate hunched posture, moderate uncoordinated, moderate	
		16-Jun-89	14:10	7 / 08:10	9	inactive, moderate hunched posture, moderate uncoordinated, moderate wide-legged stance, moderate	
		16-Jun-89	14:21	7 / 10:24	9	inactive, slight hunched posture, moderate uncoordinated, moderate pupils dilated, moderate disoriented, moderate	
		16-Jun-89	14:27	7 / 14:40	9	inactive, slight pupils dilated, slight disoriented, slight	
		16-Jun-89	14:41	8 / 08:14	9	pupils dilated, slight uncoordinated, slight disoriented, slight inactive, moderate tremors, slight	
		16-Jun-89	14:49	8 / 10:45	9	inactive, slight pupils dilated, slight disoriented, slight tremors, slight	
		16-Jun-89	14:56	8 / 14:44	9	inactive, slight pupils dilated, slight disoriented, slight tremors, moderate	
		16-Jun-89	15:22	9 / 07:13	9	pupils dilated, slight disoriented, slight tremors, moderate	
		16-Jun-89	15:27	9 / 09:59	9	pupils dilated, slight disoriented, slight tremors, moderate	
		16-Jun-89	15:30	9 / 14:40	9	pupils dilated, slight inactive, slight tremors, slight	
		16-Jun-89	15:33	10 / 07:19	9	pupils dilated, slight inactive, slight tremors, slight	
		16-Jun-89	15:41	10 / 09:54	9	pupils dilated, slight inactive, slight	

**Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES**

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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**SUN-ACUTE/**

Cage #	Animal Sex/group Number /Subgroup	Date and Data was Entered	Time	Study Day/time	Oper Data was Taken	#	Clinical signs / Comments
37	89F00145	M/ 8/2	16-Jun-89	15:41	10 / 09:54	9	tremors, moderate disoriented, slight uncoordinated, moderate hunched posture, moderate pupils dilated, moderate inactive, slight
			16-Jun-89	15:45	10 / 14:51	9	pupils dilated, moderate inactive, slight
			16-Jun-89	15:47	11 / 09:20	9	inactive, slight
			16-Jun-89	15:51	11 / 12:03	9	inactive, slight
			16-Jun-89	15:54	11 / 17:05	9	pupils dilated, slight
			16-Jun-89	15:54	11 / 17:05	9	inactive, slight
			19-Jun-89	07:32	12 / 09:00	9	pupils dilated, slight
			19-Jun-89	07:38	12 / 10:46	9	pupils dilated, slight
			19-Jun-89	07:41	12 / 17:05	9	pupils dilated, slight
			19-Jun-89	07:45	13 / 07:50	9	pupils dilated, slight
			19-Jun-89	07:52	13 / 10:19	9	pupils dilated, moderate inactive, slight
			19-Jun-89	07:59	13 / 14:29	9	disoriented, moderate pupils dilated, moderate
			19-Jun-89	08:07	14 / 07:58	9	disoriented, slight red swollen testicles, moderate
			19-Jun-89	08:26	14 / 09:46	9	disoriented, slight red swollen testicles, moderate hunched posture, slight
			19-Jun-89	08:35	14 / 14:28	9	inactive, moderate disoriented, moderate hunched posture, slight
			19-Jun-89	08:44	15 / 07:15	9	inactive, slight uncoordinated, slight
			19-Jun-89	08:44	15 / 07:15	9	hunched posture, slight increased respiration, slight
			19-Jun-89	08:44	15 / 07:15	9	disoriented, slight uncoordinated, slight
			19-Jun-89	08:44	15 / 07:15	9	inactive, slight tremors, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Entered	Study Day/time	Oper Data Was Taken	#	Clinical signs / Comments
37	89F00145	M/ 8/2	19-Jun-89 08:44	15 / 07:15	9		blister back of neck
38	89F00158	M/ 8/3	19-Jun-89 08:57	1 / 08:49	9		normal/no significant signs
			19-Jun-89 09:11	1 / 10:58	9		inactive, slight
					9		increased respiration, slight
					9		inactive, moderate
					9		increased respiration, slight
					9		hunched posture, moderate
					9		inactive, slight
					9		increased respiration, slight
					9		normal/no significant signs
					9		inactive, slight
					9		hunched posture, slight
					9		hunched posture, slight
					9		pupils dilated, slight
					9		wide-legged stance, moderate
					9		inactive, slight
					9		hunched posture, slight
					9		hunched posture, slight
					9		pupils dilated, slight
					9		wide-legged stance, moderate
					9		inactive, slight
					9		hunched posture, slight
					9		hunched posture, slight
					9		uncoordinated, moderate
					9		disoriented, slight
					9		inactive, slight
					9		hunched posture, slight
					9		hunched posture, slight
					9		hunched posture, slight
					9		inactive, slight
					9		inactive, slight
					9		normal/no significant signs
					9		inactive, slight
					9		hunched posture, slight
					9		normal/no significant signs



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments
38 89F00158	M / 8/3		
	19-Jun-89	14:35	7 / 07:55 9 inactive, slight
	19-Jun-89	14:39	7 / 10:38 9 normal/no significant signs
	19-Jun-89	14:47	7 / 14:15 9 disoriented, slight
	19-Jun-89	15:16	8 / 08:24 9 uncoordinated, slight
	19-Jun-89	15:26	8 / 10:55 9 disoriented, slight
	19-Jun-89	15:35	8 / 14:38 9 uncoordinated, slight
	20-Jun-89	07:54	9 / 07:31 9 inactive, slight
	20-Jun-89	08:05	9 / 10:01 9 disoriented, slight
	20-Jun-89	08:10	9 / 14:59 9 normal/no significant signs
	20-Jun-89	13:18	10 / 08:17 9 normal/no significant signs
	20-Jun-89	13:30	10 / 10:00 9 uncoordinated, slight
	20-Jun-89	13:36	10 / 14:27 9 disoriented, slight
	20-Jun-89	13:41	11 / 08:35 9 inactive, slight
	20-Jun-89	13:47	11 / 10:03 9 normal/no significant signs
	20-Jun-89	13:54	11 / 14:27 9 disoriented, moderate
	20-Jun-89	13:54	11 / 14:27 9 wide-legged stance, moderate
	20-Jun-89	13:54	11 / 14:27 9 raspy breathing, slight
	20-Jun-89	13:54	11 / 14:27 9 disoriented, moderate
	20-Jun-89	13:54	11 / 14:27 9 uncoordinated, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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PRESIDIO OF SAN FRANCISCO, CA 94129				Data Listing by Animal		SUB-ACUTE/	
RABBIT/NEW ZEALAND WHITE				Study Start Date: 25-Apr-89			
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
38	89F00158	M/ 8/3	20-Jun-89 13:59	12 / 08:29	9	disoriented, moderate	
			20-Jun-89 14:05	12 / 11:05	9	inactive, slight	
					9	disoriented, moderate	
			20-Jun-89 14:09	12 / 20:09	9	inactive, moderate	
			20-Jun-89 14:13	13 / 08:15	9	hunched posture, slight	
					9	disoriented, moderate	
					9	disoriented, slight	
					9	uncoordinated, slight	
			20-Jun-89 14:20	13 / 10:32	9	hunched posture, slight	
					9	disoriented, slight	
					9	hunched posture, moderate	
			20-Jun-89 14:27	13 / 14:05	9	inactive, moderate	
					9	hunched posture, moderate	
					9	inactive, severe	
					9	depressed, moderate	
			30-Aug-89 14:24	14 / 09:02	4	dead	
39	89F00165	M/ 8/4	21-Jun-89 08:59	1 / 08:31	9	hunched posture, slight	
			21-Jun-89 09:08	1 / 11:19	9	hunched posture, slight	
			21-Jun-89 09:24	1 / 14:56	9	hunched posture, slight	
					9	inactive, slight	
			21-Jun-89 09:33	2 / 07:35	9	normal/no significant signs	
			21-Jun-89 09:55	2 / 10:33	9	hunched posture, moderate	
					9	inactive, moderate	
					9	lack of grooming, moderate	
			21-Jun-89 10:08	2 / 14:40	9	hunched posture, slight	
			21-Jun-89 10:23	3 / 07:42	9	normal/no significant signs	
			21-Jun-89 10:30	3 / 10:24	9	hunched posture, moderate	
					9	lack of grooming, moderate	
					9	increased respiration, slight	
					9	disoriented, slight	
			21-Jun-89 10:35	3 / 15:04	9	uncoordinated, slight	
					9	hunched posture, slight	
			21-Jun-89 10:40	4 / 09:30	9	inactive, slight	
			21-Jun-89 10:46	4 / 12:35	9	inactive, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Data Listing by Animal

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Cage #	Animal Sex/group Date and Time	Study Day/time	Oper	Clinical signs / Comments
Number	Subgroup Date was Entered	Data was Taken	#	
39	89F00165	M/ 8/4		
	21-Jun-89	10:46	4 / 12:35	9 hunched posture, slight
	21-Jun-89	10:50	4 / 17:15	9 inactive, slight
	22-Jun-89	09:20	5 / 09:10	9 normal/no significant signs
	22-Jun-89	09:23	5 / 11:22	9 inactive, slight
	22-Jun-89	09:26	5 / 17:15	9 hunched posture, slight
	22-Jun-89	09:28	6 / 08:00	9 normal/no significant signs
	22-Jun-89	09:33	6 / 10:46	9 normal/no significant signs
	22-Jun-89	09:41	6 / 14:29	9 disoriented, moderate
	22-Jun-89	09:47	7 / 08:33	9 uncoordinated, slight
	22-Jun-89	09:55	7 / 10:00	9 uncoordinated, slight
	22-Jun-89	10:04	7 / 14:42	9 hunched posture, slight
	22-Jun-89	10:17	8 / 07:37	9 increased respiration, moderate
	22-Jun-89	10:22	8 / 10:39	9 not using leg, severe, left front leg
	22-Jun-89	10:27	8 / 15:03	9 not using leg, severe, left front leg
	22-Jun-89	13:34	9 / 08:24	9 hunched posture, slight
	22-Jun-89	13:39	9 / 10:15	9 startles, moderate
	22-Jun-89	13:45	9 / 14:32	9 not using leg, severe, left front leg
	22-Jun-89	13:48	10 / 08:15	9 hunched posture, moderate
	22-Jun-89	13:57	10 / 10:12	9 not using leg, severe, left front leg

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Date Listing by Animal

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Entered	Study Day/time Oper	Clinical signs / Comments
39	89F00165	M/ 8/4	22-Jun-89 13:57	10 / 10:12 9 hunched posture, moderate inactive, slight disoriented, moderate
		22-Jun-89 14:02	10 / 14:30 9 not using leg, moderate, left front leg	
		22-Jun-89 14:09	11 / 08:33 9 not using leg, moderate, left front leg	
		22-Jun-89 14:14	11 / 11:15 9 hunched posture, moderate disoriented, slight	
				not using leg, moderate, left front leg
				hunched posture, moderate disoriented, slight
				inactive, moderate
		22-Jun-89 14:18	11 / 20:11 9 not using leg, moderate, left front leg	
		22-Jun-89 14:24	12 / 08:21 9 not using leg, moderate, left front leg	
		22-Jun-89 14:33	12 / 10:43 9 not using leg, moderate, left front leg	
				hunched posture, slight inactive, slight
				disoriented, slight
		22-Jun-89 14:38	12 / 14:08 9 not using leg, moderate, left front leg	
				hunched posture, moderate inactive, slight
				tremors, slight
		22-Jun-89 14:52	13 / 09:06 9 not using leg, moderate, left front leg	
				hunched posture, slight disoriented, slight
		22-Jun-89 14:59	13 / 10:47 9 not using leg, moderate, left front leg	
				hunched posture, moderate disoriented, slight
				inactive, slight
		22-Jun-89 15:03	13 / 15:23 9 not using leg, moderate, left front leg	
				hunched posture, moderate
		22-Jun-89 15:07	14 / 07:58 9 not using leg, moderate, left front leg	
				hunched posture, slight
		22-Jun-89 15:14	14 / 09:26 9 not using leg, moderate, left front leg	
				inactive, slight swollen testes, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

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SUB-ACUTE/

Cage #	Animal Sex/group Number /Subgroup	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments	
39	89F00165	M/ 8/4	22-Jun-89 15:14	14 / 09:26	9	disoriented, slight
		22-Jun-89 15:20	14 / 14:53	9	uncoordinated, slight	
		22-Jun-89 15:26	15 / 07:11	9	not using leg, moderate, left front leg inactive, slight	
		22-Jun-89 15:26			9	swollen testes, moderate
		22-Jun-89 15:26			9	inactive, moderate
		22-Jun-89 15:26			9	swollen testes, moderate
		22-Jun-89 15:26			9	disoriented, moderate
		22-Jun-89 15:26			9	uncoordinated, moderate
40	89F00266	M/ 8/5	26-Jun-89 08:02	1 / 08:00	9	normal/no significant signs
		26-Jun-89 08:06	1 / 10:06	9	disoriented, moderate	
		26-Jun-89 08:10	1 / 14:00	9	hyperactive, slight	
		26-Jun-89 08:14	2 / 07:20	9	inactive, slight	
		26-Jun-89 08:19	2 / 09:26	9	disoriented, slight	
		26-Jun-89 08:19			9	hyperactive, moderate
		26-Jun-89 08:19			9	disoriented, moderate
		26-Jun-89 08:19			9	hyperactive, moderate
		26-Jun-89 08:19			9	inactive, slight
		26-Jun-89 08:23	2 / 14:00	9	normal/no significant signs	
		26-Jun-89 08:27	3 / 08:05	9	inactive, slight	
		26-Jun-89 09:15	3 / 10:27	9	disoriented, slight	
		26-Jun-89 09:27	3 / 14:10	9	disoriented, slight	
		26-Jun-89 09:36	4 / 07:41	9	uncoordinated, moderate	
		26-Jun-89 09:40	4 / 12:23	9	normal/no significant signs	
		26-Jun-89 09:45	4 / 14:43	9	inactive, slight	
		26-Jun-89 09:53	5 / 07:35	9	uncoordinated, slight	
		26-Jun-89 09:53			9	inactive, slight
		26-Jun-89 09:53			9	tearing, slight, both
		26-Jun-89 09:53			9	inactive, moderate
		26-Jun-89 09:53			9	tearing, slight, both
		26-Jun-89 09:53			9	uncoordinated, slight
		26-Jun-89 09:53			9	inactive, moderate
		26-Jun-89 09:53			9	disoriented, slight
		26-Jun-89 09:53			9	increased respiratory depth, slight
		26-Jun-89 09:53			9	increased respiration, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

40	89F00266	M/ 8/5	26-Jun-89	10:08	5 / 14:03	9	Inactive, moderate increased respiratory depth, slight increased respiration, slight increased respiratory depth, moderate increased respiration, moderate increased respiratory depth, moderate increased respiration, moderate inactive, moderate inactive, moderate tearing, slight, both lack of appetite, severe inactive, severe lack of thirst, severe lack of appetite, severe increased respiration, moderate increased respiratory depth, moderate inactive, severe lack of thirst, severe lack of appetite, severe increased respiration, moderate inactive, severe lack of thirst, severe lack of appetite, severe increased respiration, moderate depressed, severe hunched posture, slight dead
			26-Jun-89	10:11	6 / 08:25	9	normal/no significant signs
			26-Jun-89	10:16	6 / 10:05	9	disoriented, moderate red eyes, slight hyperactive, slight hunched posture, slight increased respiration, moderate disoriented, moderate red eyes, slight hyperactive, slight hunched posture, slight
			26-Jun-89	10:27	6 / 14:23	9	
			26-Jun-89	10:53	7 / 07:20	9	
			26-Jun-89	10:55	7 / 09:25	9	
41	89F00121	M/ 9/1	26-Jun-89	10:50	7 / 14:46	9	
			07-Jun-89	07:59	1 / 10:01	9	
			07-Jun-89	13:55	1 / 11:24	9	
			07-Jun-89	14:18	1 / 15:02	9	



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Data Was Taken	Study Day/time	Oper	Clinical signs / Comments
41	89F00121	M/ 9/1	08-Jun-89 14:05	7 / 15:14	9	hunched posture, slight
		09-Jun-89 07:47	8 / 08:25	9	9	red swollen testicles, severe
		09-Jun-89 07:58	8 / 11:13	9	9	hunched posture, slight
						red swollen testicles, severe
						hunched posture, moderate
						startles, slight
						disoriented, moderate
		09-Jun-89 08:11	8 / 14:18	9	9	red swollen testicles, severe
						hunched posture, slight
						startles, slight
						hyperactive, slight
		09-Jun-89 08:23	9 / 07:54	9	9	red swollen testicles, severe
						startles, slight
		09-Jun-89 08:36	9 / 09:55	9	9	hyperactive, slight
						red swollen testicles, severe
						startles, slight
						hyperactive, slight
		09-Jun-89 08:43	9 / 14:32	9	9	hunched posture, slight
						red swollen testicles, severe
		09-Jun-89 08:51	10 / 06:53	9	9	hunched posture, moderate
						red swollen testicles, severe
		09-Jun-89 09:08	10 / 09:00	9	9	hyperactive, slight
						red swollen testicles, moderate
						disoriented, slight
		09-Jun-89 09:14	10 / 14:40	9	9	hunched posture, moderate
						red swollen testicles, moderate
		09-Jun-89 09:33	11 / 06:55	9	9	hunched posture, moderate
						red swollen testicles, moderate
		09-Jun-89 10:00	11 / 09:10	9	9	hunched posture, moderate
						red swollen testicles, moderate
		09-Jun-89 10:06	11 / 14:41	9	9	hunched posture, moderate
						red swollen testicles, slight
						inactive, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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SUB-ACUTE/

Cage #	Animal Sex/Group Date and Number / Subgroup Data was Entered	Time Study Day/Time Oper Data was Taken	Clinical signs / Comments	
41	89F00121 M/ 9/1	09-Jun-89 13:40	12 / 09:15 9	red swollen testicles, slight hunched posture, slight inactive, slight
	09-Jun-89 13:46	12 / 11:16 9	red swollen testicles, slight hunched posture, moderate disoriented, slight	
	09-Jun-89 13:50	12 / 17:00 9	red swollen testicles, slight hunched posture, slight inactive, slight	
	09-Jun-89 13:53	13 / 08:55 9	red swollen testicles, slight inactive, slight	
	09-Jun-89 14:02	13 / 10:20 9	red swollen testicles, slight disoriented, slight hunched posture, moderate loose stool, moderate uncoordinated, slight	
	09-Jun-89 14:07	13 / 17:00 9	red swollen testicles, slight inactive, slight hunched posture, slight	
	09-Jun-89 14:09	14 / 07:45 9	red swollen testicles, slight	
	09-Jun-89 14:20	14 / 09:43 9	increased respiration, slight	
	09-Jun-89 14:26	14 / 14:08 9	hunched posture, slight edema testes, moderate	
	09-Jun-89 14:36	15 / 07:14 9	hunched posture, slight edema testes, slight	
	09-Jun-89 14:55	1 / 08:58 9	normal/no significant signs	
	09-Jun-89 15:07	1 / 11:35 9	inactive, moderate red eyes, slight	
	09-Jun-89 15:12	1 / 14:53 9	disoriented, moderate inactive, slight	
	13-Jun-89 13:24	2 / 07:53 9	red eyes, slight inactive, slight red eyes, slight disoriented, slight uncoordinated, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses  
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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments
42 89F00139	M/ 9/2	13-Jun-89 13:35	2 / 11:50 9 Inactive, slight red eyes, slight disoriented, moderate uncoordinated, moderate wide-legged stance, moderate inactive, slight
		13-Jun-89 13:39	2 / 14:32 9 normal/no significant signs
		13-Jun-89 13:45	3 / 07:33 9 normal/no significant signs
		13-Jun-89 13:50	3 / 14:04 9 normal/no significant signs
		13-Jun-89 15:30	4 / 08:12 9 normal/no significant signs
		13-Jun-89 15:32	4 / 13:46 9 normal/no significant signs
		13-Jun-89 15:34	4 / 16:46 9 normal/no significant signs
		13-Jun-89 15:36	5 / 07:58 9 normal/no significant signs
		13-Jun-89 15:38	5 / 11:11 9 normal/no significant signs
		13-Jun-89 15:40	5 / 15:48 9 normal/no significant signs
		13-Jun-89 15:44	6 / 07:43 9 normal/no significant signs
		13-Jun-89 15:47	6 / 11:13 9 Inactive, slight disoriented, moderate uncoordinated, slight
		13-Jun-89 15:52	6 / 15:27 9 Inactive, slight disoriented, moderate uncoordinated, moderate
		16-Jun-89 14:10	7 / 07:59 9 red swollen testicles, moderate disoriented, slight uncoordinated, slight
		16-Jun-89 14:21	7 / 10:17 9 red swollen testicles, moderate disoriented, moderate uncoordinated, moderate
		16-Jun-89 14:28	7 / 14:29 9 red swollen testicles, moderate disoriented, slight uncoordinated, slight
		16-Jun-89 14:42	8 / 08:07 9 red swollen testicles, moderate inactive, slight disoriented, slight uncoordinated, moderate inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
42	89F00139	M	9/2			
		16-Jun-89	14:42	8 / 08:07	9	Lack of grooming, slight
		16-Jun-89	14:51	8 / 10:32	9	Inactive, slight
						White ocular discharge, slight
		16-Jun-89	14:57	8 / 14:40	9	Inactive, slight
						White ocular discharge, slight
		16-Jun-89	15:22	9 / 07:04	9	Inactive, slight
						White ocular discharge, slight
		16-Jun-89	15:27	9 / 09:40	9	White ocular discharge, slight
						White ocular discharge, slight
						Disoriented, slight
						Uncoordinated, slight
		16-Jun-89	15:30	9 / 14:40	9	Inactive, slight
		16-Jun-89	15:34	10 / 07:11	9	Inactive, slight
						Disoriented, slight
						Uncoordinated, slight
		16-Jun-89	15:41	10 / 09:46	9	White ocular discharge, slight
						Disoriented, slight
						Uncoordinated, slight
		16-Jun-89	15:45	10 / 14:48	9	White ocular discharge, slight
		16-Jun-89	15:47	11 / 09:20	9	Normal/no significant signs
		16-Jun-89	15:51	11 / 11:59	9	Inactive, slight
						Lack of grooming, slight
		16-Jun-89	15:54	11 / 17:05	9	White ocular discharge, slight
		19-Jun-89	07:32	12 / 09:00	9	Normal/no significant signs
		19-Jun-89	07:39	12 / 10:40	9	Inactive, slight
						Disoriented, slight
						Uncoordinated, slight
		19-Jun-89	07:42	12 / 17:05	9	Red swollen testicles, slight
		19-Jun-89	07:45	13 / 07:50	9	Inactive, slight
		19-Jun-89	07:53	13 / 10:08	9	Normal/no significant signs
						Disoriented, slight
						Uncoordinated, slight
						Red swollen testicles, slight
		19-Jun-89	08:00	13 / 14:22	9	Disoriented, slight
						Uncoordinated, slight
						Red swollen testicles, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
42	89F00139	M/ 9/2	19-Jun-89 08:10	14 / 07:50	9 uncoordinated, slight red swollen testicles, slight uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 08:27	14 / 09:34	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 08:35	14 / 14:23	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 08:44	15 / 07:07	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
43	89F00151	M/ 9/3	19-Jun-89 08:58	1 / 08:45	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 09:12	1 / 10:40	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 09:35	1 / 14:47	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 10:17	2 / 08:22	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 13:20	2 / 10:57	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 13:25	2 / 14:46	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 13:32	3 / 07:16	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs
			19-Jun-89 13:38	3 / 10:11	9 uncoordinated, moderate red swollen testicles, slight inactive, slight disoriented, moderate hunched posture, slight normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
43 89F00151	M/ 9/3	19-Jun-89	13:38	3 / 10:11	9 inactive, moderate
		19-Jun-89	13:45	3 / 14:40	9 hunched posture, moderate
		19-Jun-89	13:51	4 / 07:26	9 inactive, moderate
		19-Jun-89	14:01	4 / 10:00	9 hunched posture, moderate
		19-Jun-89	14:08	4 / 14:56	9 inactive, moderate
		19-Jun-89	14:13	5 / 09:25	9 inactive, slight
		19-Jun-89	14:19	5 / 12:11	9 inactive, moderate
		19-Jun-89	14:23	5 / 17:10	9 hunched posture, moderate
		19-Jun-89	14:27	6 / 09:05	9 inactive, slight
		19-Jun-89	14:30	6 / 10:56	9 hunched posture, slight
		19-Jun-89	14:33	6 / 17:10	9 hunched posture, slight
		19-Jun-89	14:35	7 / 07:55	9 inactive, slight
		19-Jun-89	14:39	7 / 10:24	9 inactive, slight
		19-Jun-89	14:48	7 / 14:05	9 pupils dilated, moderate
					9 inactive, slight
					9 disoriented, moderate
					9 uncoordinated, moderate
		19-Jun-89	15:16	8 / 08:11	9 hunched posture, moderate
		19-Jun-89	15:27	8 / 10:38	9 inactive, slight
					9 hunched posture, moderate
					9 inactive, moderate
					9 hunched posture, moderate
					9 disoriented, moderate
					9 uncoordinated, moderate
					9 wide-legged stance, moderate
					9 tremors, slight
		19-Jun-89	15:36	8 / 14:32	9 inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

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SUB-ACUTE/

Cage # Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

43	89F00151	M/ 9/3	19-Jun-89	15:36	8 / 14:32	9	disoriented, slight uncoordinated, slight wide-legged stance, slight inactive, moderate disoriented, slight hunched posture, moderate sways head slowly disoriented, moderate hunched posture, moderate sways head slowly hunched posture, moderate inactive, slight lack of appetite, slight inactive, slight red swollen testicles, moderate inactive, moderate red swollen testicles, moderate disoriented, moderate inactive, moderate red swollen testicles, moderate lack of appetite, severe inactive, moderate red swollen testicles, moderate lack of appetite, severe hunched posture, moderate sways head slowly inactive, moderate red swollen testicles, moderate hunched posture, moderate uncoordinated, moderate disoriented, moderate sways head slowly inactive, slight hunched posture, slight red swollen testicles, slight
			20-Jun-89	07:56	9 / 07:19	9	
			20-Jun-89	08:06	9 / 09:43	9	
			20-Jun-89	08:11	9 / 14:53	9	
			20-Jun-89	13:19	10 / 08:10	9	
			20-Jun-89	13:31	10 / 09:43	9	
			20-Jun-89	13:37	10 / 14:22	9	
			20-Jun-89	13:42	11 / 08:25	9	
			20-Jun-89	13:48	11 / 09:49	9	
			20-Jun-89	13:54	11 / 14:20	9	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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 Data Listing by Animal  
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SUB-ACUTE/

Cage #	Animal Sex/Group	Date and Time # Number / Subgroup Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
43	89F00151	M/ 9/3	20-Jun-89 13:59	12 / 08:24 9 inactive, slight hunched posture, slight raspy breathing, moderate
			20-Jun-89 14:06	12 / 10:38 9 inactive, moderate hunched posture, moderate sways head slowly
			20-Jun-89 14:10	12 / 20:05 9 inactive, slight hunched posture, slight sways head slowly
			20-Jun-89 14:14	13 / 08:11 9 inactive, slight hunched posture, slight lack of appetite, moderate raspy breathing, slight
			20-Jun-89 14:21	13 / 10:12 9 inactive, slight hunched posture, slight lack of appetite, moderate disoriented, moderate uncoordinated, moderate sways head slowly
			20-Jun-89 14:28	13 / 14:03 9 inactive, slight hunched posture, slight lack of appetite, severe disoriented, moderate uncoordinated, moderate sways head slowly
			20-Jun-89 14:32	14 / 08:56 9 inactive, moderate disoriented, slight hunched posture, moderate tremors, slight
			20-Jun-89 14:44	14 / 10:22 9 inactive, moderate hunched posture, severe lack of appetite, moderate depressed, severe rough coat, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010K  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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**SUB-ACUTE /**

Age #	Animal Sex/group Number /Subgroup	Date and Data Entered	Time Entered	Study Date	Day/Time Oper Data was Taken	Oper #	Clinical signs / Comments
43	89F00151	M/ 9/3	20-Jun-89	15:06	14 / 15:15	9	inactive, slight lack of appetite, severe hunched posture, severe lack of appetite, moderate depressed, severe red eyes, slight inactive, slight hunched posture, slight inactive, moderate
44	89F00156	M/ 9/3	20-Jun-89	15:10	15 / 07:26	9	inactive, severe hunched posture, severe lack of appetite, moderate depressed, severe red eyes, slight inactive, slight hunched posture, slight inactive, moderate
			19-Jun-89	08:58	1 / 08:48	9	inactive, slight lack of appetite, severe hunched posture, severe lack of appetite, moderate depressed, severe red eyes, slight inactive, slight hunched posture, slight inactive, moderate
			19-Jun-89	09:13	1 / 10:52	9	inactive, slight hunched posture, slight inactive, moderate
			19-Jun-89	09:37	1 / 14:50	9	inactive, slight hunched posture, slight inactive, moderate
			19-Jun-89	10:17	2 / 08:43	9	inactive, slight hunched posture, slight inactive, moderate
			19-Jun-89	13:20	2 / 11:05	9	inactive, slight hunched posture, slight inactive, moderate
			19-Jun-89	13:25	2 / 14:51	9	normal/no significant signs
			19-Jun-89	13:32	3 / 07:25	9	normal/no significant signs
			19-Jun-89	13:38	3 / 10:20	9	inactive, slight hunched posture, slight inactive, slight hunched posture, slight inactive, slight
			19-Jun-89	13:45	3 / 14:40	9	inactive, slight hunched posture, slight inactive, slight
			19-Jun-89	13:51	4 / 07:29	9	normal/no significant signs
			19-Jun-89	14:01	4 / 10:21	9	disoriented, slight
			19-Jun-89	14:08	4 / 14:59	9	normal/no significant signs
			19-Jun-89	14:13	5 / 09:25	9	inactive, slight
			19-Jun-89	14:19	5 / 12:25	9	inactive, slight
			19-Jun-89	14:23	5 / 17:10	9	inactive, slight
			19-Jun-89	14:27	6 / 09:05	9	inactive, slight
			19-Jun-89	14:30	6 / 11:05	9	inactive, slight hunched posture, slight
			19-Jun-89	14:33	6 / 17:10	9	normal/no significant signs
			19-Jun-89	14:35	7 / 07:55	9	inactive, slight
			19-Jun-89	14:39	7 / 11:55	9	inactive, slight
			19-Jun-89	14:49	7 / 14:12	9	inactive, moderate increased respiration, slight edema ventral, severe hunched posture, moderate increased respiration, moderate edema ventral, severe
			19-Jun-89	15:17	8 / 08:18	9	hunched posture, moderate increased respiration, moderate edema ventral, severe



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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Data Listing by Animal  
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SUB-ACUTE/

Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
44	89F00156	M / 9/3	19-Jun-89	15:17	8 / 08:18	9	startles, moderate
			19-Jun-89	15:29	8 / 10:50	9	wide-legged stance, moderate increased respiration, slight edema ventral, severe inactive, slight hunched posture, slight disoriented, moderate uncoordinated, moderate
			19-Jun-89	15:37	8 / 14:38	9	edema ventral, severe hunched posture, slight disoriented, slight
			20-Jun-89	07:57	9 / 07:27	9	edema ventral, severe inactive, slight
			20-Jun-89	08:06	9 / 10:25	9	edema ventral, severe edema testes, severe
			20-Jun-89	08:12	9 / 14:58	9	edema ventral, severe edema testes, severe
			20-Jun-89	13:20	10 / 08:15	9	edema ventral, severe edema testes, severe inactive, slight disoriented, slight
			20-Jun-89	13:32	10 / 10:00	9	loose stool, moderate edema ventral, severe edema testes, severe inactive, moderate disoriented, slight loose stool, moderate
			20-Jun-89	13:37	10 / 14:26	9	hunched posture, moderate edema ventral, severe
			20-Jun-89	13:42	11 / 08:33	9	edema ventral, severe edema testes, severe
			20-Jun-89	13:49	11 / 10:03	9	edema ventral, severe edema testes, severe

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
Study Start Date: 25-Apr-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Taken	Study Day/time Oper	Clinical signs / Comments
44	89F00156 M/ 9/3	20-Jun-89	13:49	11 / 10:03	9 disoriented, slight uncoordinated, slight edema ventral, severe edema testes, severe
		20-Jun-89	13:55	11 / 14:25	9 edema ventral, severe edema testes, severe
		20-Jun-89	13:59	12 / 08:27	9 inactive, slight hunched posture, slight edema ventral, severe edema testes, severe
		20-Jun-89	14:07	12 / 10:55	9 inactive, slight hunched posture, slight edema ventral, severe edema testes, severe
		20-Jun-89	14:10	12 / 20:07	9 edema ventral, severe edema testes, severe
		20-Jun-89	14:14	13 / 08:13	9 edema ventral, severe edema testes, severe
		20-Jun-89	14:21	13 / 10:25	9 edema ventral, severe edema testes, severe hunched posture, slight disoriented, slight edema ventral, severe
		20-Jun-89	14:28	13 / 14:04	9 edema ventral, severe edema testes, severe hunched posture, slight edema ventral, severe
		20-Jun-89	14:33	14 / 08:59	9 edema ventral, severe edema testes, severe wide-legged stance, moderate red swollen testicles, moderate hunched posture, moderate
		20-Jun-89	14:57	14 / 10:42	9 inactive, slight red swollen testicles, moderate red swollen testicles, moderate hunched posture, slight
		20-Jun-89	15:06	14 / 15:18	9 normal/no significant signs
		20-Jun-89	15:10	15 / 07:53	9 disoriented, slight inactive, slight
45	89F00267 M/ 9/5	26-Jun-89	08:02	1 / 08:00	9 disoriented, slight
		26-Jun-89	08:07	1 / 10:06	9 inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
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SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
45	89F00267	M/ 9/5			
		26-Jun-89	08:07	1 / 10:06	9 increased respiration, slight
		26-Jun-89	08:11	1 / 14:00	9 inactive, slight
		26-Jun-89	08:14	2 / 07:20	9 inactive, slight
					9 increased respiration, slight
					9 hunched posture, moderate
		26-Jun-89	08:19	2 / 09:35	9 inactive, moderate
					9 increased respiration, slight
					9 hunched posture, moderate
		26-Jun-89	08:23	2 / 14:00	9 normal/no significant signs
		26-Jun-89	08:28	3 / 08:06	9 inactive, slight
					9 disoriented, slight
		26-Jun-89	09:15	3 / 10:30	9 disoriented, moderate
					9 inactive, moderate
					9 increased respiration, moderate
		26-Jun-89	09:27	3 / 14:11	9 inactive, moderate
					9 increased respiration, slight
		26-Jun-89	09:36	4 / 07:42	9 inactive, moderate
		26-Jun-89	09:41	4 / 12:33	9 inactive, moderate
					9 disoriented, slight
					9 increased respiration, slight
					9 tremors, slight
		26-Jun-89	09:45	4 / 14:45	9 inactive, moderate
					9 disoriented, slight
					9 uncoordinated, slight
		26-Jun-89	09:53	5 / 07:37	9 inactive, moderate
					9 uncoordinated, slight
		26-Jun-89	10:04	5 / 11:20	9 inactive, moderate
					9 uncoordinated, slight
					9 disoriented, slight
		26-Jun-89	10:08	5 / 14:05	9 inactive, slight
					9 uncoordinated, slight
		26-Jun-89	10:12	6 / 08:25	9 inactive, slight
		26-Jun-89	10:17	6 / 10:10	9 normal/no significant signs
		26-Jun-89	10:27	6 / 14:25	9 normal/no significant signs
		26-Jun-89	10:33	7 / 07:21	9 inactive, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARK: INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010M  
Data Listing by Animal  
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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Data was Taken	Study Day/time Oper	Clinical signs / Comments
45 89F00267	M/ 9/5 26-Jun-89 13:40	10 / 09:41	9	loose stool, moderate lack of appetite, severe dec thirst, severe disoriented, moderate inactive, slight hunched posture, slight lack of appetite, severe dec thirst, severe disoriented, slight inactive, moderate hunched posture, moderate lack of appetite, severe dec thirst, severe hunched posture, moderate lack of appetite, severe dec thirst, severe disoriented, moderate uncoordinated, severe increased respiratory depth, moderate hunched posture, moderate lack of appetite, severe dec thirst, moderate inactive, severe hunched posture, moderate lack of appetite, severe dec thirst, severe disoriented, moderate hunched posture, severe lack of appetite, severe inactive, severe disoriented, moderate hunched posture, severe lack of appetite, severe inactive, severe disoriented, moderate hunched posture, slight increased respiratory depth, swollen testes, moderate depressed, moderate
	26-Jun-89 13:43	10 / 14:13	9	
	26-Jun-89 13:50	11 / 07:23	9	
	26-Jun-89 13:56	11 / 10:32	9	
	26-Jun-89 14:01	11 / 14:28	9	
	26-Jun-89 14:07	12 / 07:39	9	
	26-Jun-89 14:13	12 / 11:07	9	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88Q10M  
Data Listing by Animal  
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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
45	89F00267 M/ 9/5	26-Jun-89 14:30	12 / 14:53	9	hunched posture, severe lack of appetite, severe inactive, severe disoriented, moderate
		26-Jun-89 14:37	13 / 07:48	9	hunched posture, severe lack of appetite, moderate inactive, severe disoriented, moderate increased respiratory depth, slight swollen testis, moderate depressed, moderate diarrhea, severe
		26-Jun-89 14:43	13 / 10:00	9	hunched posture, severe lack of appetite, moderate inactive, severe disoriented, severe increased respiratory depth, slight swollen testes, moderate hunched posture, severe lack of appetite, severe inactive, severe increased respiratory depth, moderate swollen testes, moderate depressed, moderate
		26-Jun-89 14:48	13 / 14:04	9	hunched posture, severe lack of appetite, severe inactive, severe increased respiratory depth, moderate swollen testes, moderate depressed, moderate hunched posture, severe lack of appetite, severe inactive, severe increased respiratory depth, moderate swollen testes, moderate depressed, moderate loose stool, moderate inactive, moderate uncoordinated, moderate disoriented, moderate hunched posture, moderate
		26-Jun-89 14:51	14 / 11:20	9	hunched posture, severe lack of appetite, severe inactive, severe increased respiratory depth, moderate swollen testes, moderate depressed, moderate hunched posture, severe lack of appetite, severe inactive, severe increased respiratory depth, moderate swollen testes, moderate depressed, moderate loose stool, moderate inactive, moderate uncoordinated, moderate disoriented, moderate hunched posture, moderate
		26-Jun-89 14:57	14 / 12:54	9	hunched posture, severe lack of appetite, severe inactive, severe disoriented, moderate increased respiratory depth, slight swollen testis, moderate depressed, moderate diarrhea, severe

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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 SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Data Was Taken	Study Day/time Oper	Clinical signs / Comments
45	89F00267 M/ 9/5	26-Jun-89	14:59	14 / 16:08	9 inactive, moderate uncoordinated, moderate disoriented, moderate hunched posture, moderate lack of appetite, slight inactive, severe hunched posture, severe lack of appetite, moderate normal/no significant signs hunched posture, slight disoriented, moderate wide-legged stance, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight uncoordinated, slight disoriented, slight wide-legged stance, moderate uncoordinated, slight hyperactive, moderate pupils dilated, slight hyperactive, slight hunched posture, slight disoriented, slight wide-legged stance, slight uncoordinated, slight tremors, slight pupils dilated, slight tremors, slight disoriented, moderate wide-legged stance, slight
		26-Jun-89	15:03	15 / 08:12	9
		07-Jun-89	08:00	1 / 08:36	9
		07-Jun-89	13:55	1 / 11:47	9
		07-Jun-89	14:19	1 / 15:04	9
		08-Jun-89	08:04	2 / 08:06	9
		08-Jun-89	08:24	2 / 10:26	9
		08-Jun-89	08:49	2 / 14:42	9
		08-Jun-89	09:12	3 / 07:44	9
		08-Jun-89	09:52	3 / 09:25	9
		08-Jun-89	10:08	4 / 07:20	9
		08-Jun-89	10:17	4 / 10:43	9

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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 SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	#		
46	89F00124	M/10/1	08-Jun-89 10:17	4 / 10:43	9	uncoordinated, moderate
			08-Jun-89 10:22	4 / 14:19	9	pupils dilated, slight wide-legged stance, slight
			08-Jun-89 10:26	5 / 08:06	9	normal/no significant signs
			08-Jun-89 10:32	5 / 12:42	9	hunched posture, slight
			08-Jun-89 10:36	5 / 16:38	9	normal/no significant signs
			08-Jun-89 10:40	6 / 07:51	9	inactive, slight
			08-Jun-89 10:42	6 / 10:37	9	inactive, slight
			08-Jun-89 10:46	6 / 15:39	9	normal/no significant signs
			08-Jun-89 13:45	7 / 07:29	9	normal/no significant signs
			08-Jun-89 13:52	7 / 10:31	9	hunched posture, slight disoriented, slight
			08-Jun-89 14:06	7 / 15:15	9	hunched posture, slight inactive, moderate
			09-Jun-89 07:48	8 / 08:26	9	hunched posture, slight inactive, slight
			09-Jun-89 07:59	8 / 11:18	9	hunched posture, slight inactive, moderate
			09-Jun-89 08:11	8 / 14:19	9	disoriented, slight excessive thirst, moderate
			09-Jun-89 08:23	9 / 07:55	9	hunched posture, moderate inactive, moderate
			09-Jun-89 08:36	9 / 10:05	9	disoriented, slight excessive thirst, moderate
			09-Jun-89 08:44	9 / 14:32	9	normal/no significant signs inactive, slight
			09-Jun-89 08:51	10 / 06:54	9	disoriented, slight inactive, slight
			09-Jun-89 09:08	10 / 09:03	9	hunched posture, slight hunched posture, slight inactive, moderate
						hunched posture, moderate loose stool, severe



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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 SUB-ACUTE/

Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
46	89F00124	M/10/1		
		09-Jun-89 09:15	10 / 14:40	9 hunched posture, slight disoriented, slight
		09-Jun-89 09:34	11 / 06:56	9 hunched posture, moderate inactive, slight
				loose stool, severe
		09-Jun-89 10:00	11 / 09:18	9 lack of grooming, moderate inactive, slight
				hunched posture, moderate
		09-Jun-89 10:07	11 / 14:42	9 lack of grooming, moderate hunched posture, slight
		09-Jun-89 13:40	12 / 09:17	9 lack of grooming, moderate hunched posture, slight
		09-Jun-89 13:47	12 / 11:18	9 lack of grooming, moderate inactive, slight
				disoriented, slight
		09-Jun-89 13:50	12 / 17:00	9 lack of grooming, moderate inactive, slight
		09-Jun-89 13:53	13 / 08:55	9 lack of grooming, moderate
		09-Jun-89 14:02	13 / 10:30	9 lack of grooming, moderate inactive, slight
				hunched posture, slight
		09-Jun-89 14:07	13 / 17:00	9 lack of grooming, moderate
		09-Jun-89 14:10	14 / 07:45	9 lack of grooming, moderate
		09-Jun-89 14:20	14 / 09:50	9 increased respiration, slight
		09-Jun-89 14:27	14 / 14:09	9 disoriented, slight
				loose stool, moderate
		09-Jun-89 14:37	15 / 07:15	9 hunched posture, moderate
				lack of grooming, moderate
				wide-legged stance, moderate
47	89F00142	M/10/2		
		09-Jun-89 14:55	1 / 09:00	9 normal/no significant signs
		09-Jun-89 15:07	1 / 11:55	9 hunched posture, slight
		09-Jun-89 15:13	1 / 15:00	9 normal/no significant signs
		13-Jun-89 13:25	2 / 07:59	9 hunched posture, slight

## Appendix D (cont.):

## INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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Data Listing by Animal  
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SUB-ACUTE/

Cage #	Animal Sex/group Date	Time Data Was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
47 89F00142	M/10/2	13-Jun-89 13:25	2 / 07:59	9	inactive, slight
		13-Jun-89 13:35	2 / 11:39	9	hunched posture, moderate
					wide-legged stance, moderate
		13-Jun-89 13:39	2 / 14:35	9	hunched posture, slight
		13-Jun-89 13:46	3 / 07:36	9	hunched posture, slight
		13-Jun-89 13:48	3 / 11:30	9	normal/no significant signs
		13-Jun-89 13:50	3 / 14:09	9	normal/no significant signs
		13-Jun-89 15:30	4 / 08:14	9	normal/no significant signs
		13-Jun-89 15:33	4 / 14:37	9	normal/no significant signs
		13-Jun-89 15:35	4 / 16:47	9	excessive thirst, severe
		13-Jun-89 15:36	5 / 07:59	9	normal/no significant signs
		13-Jun-89 15:38	5 / 11:24	9	normal/no significant signs
		13-Jun-89 15:40	5 / 15:46	9	normal/no significant signs
		13-Jun-89 15:44	6 / 07:47	9	normal/no significant signs
		13-Jun-89 15:48	6 / 11:23	9	wide-legged stance, slight
		13-Jun-89 15:53	6 / 15:30	9	wide-legged stance, moderate
					disoriented, slight
		16-Jun-89 14:11	7 / 08:06	9	wide-legged stance, slight
					hunched posture, moderate
					inactive, moderate
		16-Jun-89 14:22	7 / 10:24	9	hunched posture, slight
					disoriented, moderate
		16-Jun-89 14:29	7 / 14:34	9	uncoordinated, moderate
					disoriented, slight
					uncoordinated, slight
					excessive thirst, moderate
		16-Jun-89 14:43	8 / 08:11	9	disoriented, slight
					uncoordinated, slight
					tremors, slight
		16-Jun-89 14:51	8 / 10:35	9	uncoordinated, slight
					white ocular discharge, slight
		16-Jun-89 14:57	8 / 14:42	9	normal/no significant signs
		16-Jun-89 15:22	9 / 07:10	9	normal/no significant signs
		16-Jun-89 15:28	9 / 09:50	9	disoriented, slight
					tremors, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010M

Data Listing by Animal

Study Start Date: 25-Apr-89

Cage #	Animal Sex/Group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
47	89F00142	M/10/2				
		16-Jun-89	15:31	9 / 14:40	9	excessive thirst, severe
		16-Jun-89	15:35	10 / 07:16	9	excessive thirst, moderate
						white ocular discharge, slight
		16-Jun-89	15:42	10 / 09:46	9	white ocular discharge, slight
						disoriented, slight
						tremors, moderate
		16-Jun-89	15:45	10 / 14:49	9	normal/no significant signs
		16-Jun-89	15:48	11 / 09:20	9	normal/no significant signs
		16-Jun-89	15:52	11 / 12:00	9	inactive, slight
						white ocular discharge, slight
		16-Jun-89	15:54	11 / 17:05	9	inactive, slight
		19-Jun-89	07:32	12 / 09:00	9	normal/no significant signs
		19-Jun-89	07:39	12 / 10:45	9	inactive, slight
		19-Jun-89	07:42	12 / 17:05	9	normal/no significant signs
		19-Jun-89	07:45	13 / 07:50	9	inactive, slight
		19-Jun-89	07:54	13 / 10:12	9	disoriented, slight
						uncoordinated, slight
		19-Jun-89	08:00	13 / 14:25	9	hunched posture, slight
		19-Jun-89	08:11	14 / 07:54	9	disoriented, slight
						tremors, moderate
						white ocular discharge, slight
						inactive, slight
						hunched posture, slight
						raspy breathing, slight
						uncoordinated, moderate
						disoriented, moderate
		19-Jun-89	08:29	14 / 09:42	9	hunched posture, slight
						wide-legged stance, slight
		19-Jun-89	08:35	14 / 14:26	9	normal/no significant signs
		19-Jun-89	08:45	15 / 07:11	9	uncoordinated, slight
						disoriented, slight
		19-Jun-89	08:59	1 / 08:51	9	normal/no significant signs
		19-Jun-89	09:15	1 / 11:07	9	increased respiration, slight
		19-Jun-89	09:37	1 / 14:55	9	increased respiration, slight
		19-Jun-89	10:17	2 / 08:45	9	normal/no significant signs
48	89F00168	M/10/3				

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group Date and Time	Study Day/Time	Oper	Clinical signs / Comments
#	Number /Subgroup Data was Entered	Data was Taken	#	
48 89F00168	M/10/3			
	19-Jun-89 13:21	2 / 11:03	9	increased respiration, slight
	19-Jun-89 13:25	2 / 14:53	9	normal/no significant signs
	19-Jun-89 13:32	3 / 07:29	9	normal/no significant signs
	19-Jun-89 13:38	3 / 10:24	9	normal/no significant signs
	19-Jun-89 13:45	3 / 14:40	9	normal/no significant signs
	19-Jun-89 13:51	4 / 07:39	9	normal/no significant signs
	19-Jun-89 14:02	4 / 10:20	9	inactive, slight
				increased respiration, slight
	19-Jun-89 14:09	4 / 15:02	9	normal/no significant signs
	19-Jun-89 14:13	5 / 09:25	9	normal/no significant signs
	19-Jun-89 14:19	5 / 12:31	9	normal/no significant signs
	19-Jun-89 14:23	5 / 17:10	9	normal/no significant signs
	19-Jun-89 14:27	6 / 09:05	9	inactive, slight
	19-Jun-89 14:30	6 / 11:12	9	inactive, slight
	19-Jun-89 14:33	6 / 17:10	9	normal/no significant signs
	19-Jun-89 14:35	7 / 07:55	9	inactive, slight
	19-Jun-89 14:39	7 / 10:41	9	normal/no significant signs
	19-Jun-89 14:51	7 / 14:16	9	disoriented, moderate
				uncoordinated, moderate
				startles, moderate
	19-Jun-89 15:18	8 / 08:25	9	purple discolor left testicle, severe
				purple discolor left testicle, severe
	19-Jun-89 15:29	8 / 10:56	9	hunched posture, moderate
				purple discolor left testicle, severe
				hunched posture, moderate
				disoriented, moderate
				uncoordinated, moderate
				inactive, moderate
	19-Jun-89 15:37	8 / 14:39	9	hunched posture, slight
				inactive, moderate
	20-Jun-89 07:58	9 / 07:32	9	hunched posture, moderate
				inactive, moderate
	20-Jun-89 08:06	9 / 10:06	9	hunched posture, moderate
				inactive, moderate
	20-Jun-89 08:12	9 / 15:00	9	hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 08010M

Data Listing by Animal

Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
48	89F00168	M/10/3	20-Jun-89 08:12	9 / 15:00	9	inactive, slight
			20-Jun-89 13:20	10 / 08:19	9	hunched posture, moderate
						pupils dilated, slight
			20-Jun-89 13:32	10 / 10:01	9	hunched posture, moderate
						pupils dilated, slight
						inactive, moderate
			20-Jun-89 13:38	10 / 14:28	9	inactive, slight
			20-Jun-89 13:42	11 / 08:35	9	normal/no significant signs
			20-Jun-89 13:49	11 / 10:06	9	disoriented, moderate
						uncoordinated, moderate
						hunched posture, moderate
			20-Jun-89 13:55	11 / 14:27	9	normal/no significant signs
			20-Jun-89 14:01	12 / 08:30	9	normal/no significant signs
			20-Jun-89 14:07	12 / 11:01	9	normal/no significant signs
			20-Jun-89 14:10	12 / 20:10	9	disoriented, slight
			20-Jun-89 14:14	13 / 08:19	9	disoriented, slight
			20-Jun-89 14:21	13 / 10:33	9	hunched posture, moderate
						inactive, moderate
			20-Jun-89 14:28	13 / 14:06	9	hunched posture, moderate
						inactive, moderate
			20-Jun-89 14:33	14 / 09:02	9	inactive, slight
						pupils dilated, slight
			20-Jun-89 14:58	14 / 10:38	9	inactive, slight
						disoriented, slight
						hunched posture, moderate
						increased respiration, slight
			20-Jun-89 15:06	14 / 15:20	9	inactive, slight
						hunched posture, moderate
						increased respiration, slight
			20-Jun-89 15:11	15 / 07:55	9	inactive, slight
			19-Jun-89 08:59	1 / 08:52	9	normal/no significant signs
			19-Jun-89 09:16	1 / 10:43	9	inactive, moderate
						disoriented, moderate
						uncoordinated, moderate
			19-Jun-89 09:38	1 / 14:56	9	inactive, moderate

49 89F00136 M/10/3

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEV ZEALAND WHITE		Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 135	
Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Data was Taken	Oper #	Clinical signs / Comments
49 89F00136	M/10/3	19-Jun-89 09:38	1 / 14:56	9	disoriented, moderate uncoordinated, moderate
		19-Jun-89 10:18	2 / 08:23	9	inactive, slight disoriented, moderate uncoordinated, moderate tremors, slight
		19-Jun-89 13:21	2 / 10:55	9	pupils dilated, moderate inactive, slight
		19-Jun-89 13:25	2 / 14:47	9	pupils dilated, moderate normal/no significant signs
		19-Jun-89 13:32	3 / 07:20	9	normal/no significant signs
		19-Jun-89 13:40	3 / 10:15	9	inactive, moderate disoriented, slight uncoordinated, slight
		19-Jun-89 13:46	3 / 14:40	9	hunched posture, moderate inactive, moderate red eyes, moderate, both
		19-Jun-89 13:53	4 / 07:24	9	white ocular discharge, moderate, both squinting, severe, both red eyes, moderate, both squinting, moderate, both white ocular discharge, severe, both uncoordinated, moderate hunched posture, slight
		19-Jun-89 14:04	4 / 10:09	9	wide-legged stance, slight white ocular discharge, severe, both disoriented, moderate inactive, moderate uncoordinated, moderate
		19-Jun-89 14:09	4 / 14:57	9	inactive, slight white ocular discharge, severe, both
		19-Jun-89 14:13	5 / 09:25	9	white ocular discharge, severe, both
		19-Jun-89 14:20	5 / 12:15	9	white ocular discharge, severe, both inactive, slight disoriented, moderate

SUB-ACUTE/

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE			Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 136 SUB-ACUTE/	
Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments	
49 89F00136	M/10/3	19-Jun-89 14:20	5 / 12:15	9	uncoordinated, moderate hunched posture, slight white ocular discharge, severe, both inactive, slight hunched posture, slight white ocular discharge, severe, both white ocular discharge, severe, both hunched posture, slight inactive, slight white ocular discharge, severe, both	
		19-Jun-89 14:23	5 / 17:10	9		
		19-Jun-89 14:27	6 / 09:05	9		
		19-Jun-89 14:31	6 / 10:54	9		
		19-Jun-89 14:33	6 / 17:10	9		
		19-Jun-89 14:35	7 / 07:55	9		
		19-Jun-89 14:39	7 / 10:30	9		
		19-Jun-89 14:55	7 / 14:07	9		
					uncoordinated, moderate disoriented, moderate wide-legged stance, moderate tremors, slight yellow ocular discharge, moderate yellow ocular discharge, moderate uncoordinated, slight disoriented, slight wide-legged stance, slight yellow ocular discharge, moderate uncoordinated, moderate disoriented, moderate inactive, slight yellow ocular discharge, moderate disoriented, moderate inactive, slight yellow ocular discharge, moderate disoriented, slight yellow ocular discharge, moderate disoriented, slight yellow ocular discharge, moderate	
		19-Jun-89 15:19	8 / 08:12	9		
		19-Jun-89 15:30	8 / 10:43	9		
		19-Jun-89 15:37	8 / 14:33	9		
		20-Jun-89 07:58	9 / 07:23	9		
		20-Jun-89 08:08	9 / 09:45	9		

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010M Data Listing by Animal Study Start Date: 25-Apr-89		PRINTED: 26-Oct-89 Page: 137	
Cage Animal Sex/group Date and Time Study Day/time Oper # Number /Subgroup Data was Entered Data was Taken #				Clinical signs / Comments		SUB-ACUTE/	
49	89F00136	M/10/3	20-Jun-89 08:08	9 / 09:45	9	disoriented, moderate uncoordinated, moderate tremors, slight	
			20-Jun-89 08:13	9 / 14:54	9	disoriented, slight yellow ocular discharge, moderate inactive, slight lack of grooming, slight	
			20-Jun-89 13:21	10 / 08:11	9	yellow ocular discharge, moderate inactive, moderate increased respiratory depth, slight	
			20-Jun-89 13:33	10 / 09:47	9	yellow ocular discharge, severe inactive, moderate increased respiratory depth, moderate uncoordinated, slight	
			20-Jun-89 13:38	10 / 14:24	9	congested, moderate inactive, moderate	
			20-Jun-89 13:43	11 / 08:30	9	congested, moderate inactive, moderate disoriented, slight	
			20-Jun-89 13:50	11 / 09:55	9	yellow ocular discharge, moderate inactive, slight disoriented, moderate	
			20-Jun-89 13:56	11 / 14:21	9	yellow ocular discharge, moderate uncoordinated, slight inactive, slight	
			20-Jun-89 14:02	12 / 08:25	9	yellow ocular discharge, slight lack of grooming, slight yellow ocular discharge, moderate	
			20-Jun-89 14:07	12 / 10:44	9	disoriented, slight yellow ocular discharge, moderate disoriented, slight uncoordinated, slight	
			20-Jun-89 14:11	12 / 20:07	9	tremors, slight yellow ocular discharge, moderate	



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses		PRINTED: 26-Oct-89 Page: 138	
				Study Number: 88010M Data Listing by Animal			
				Study Start Date: 25-Apr-89		SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Number /Subgroup	Date Entered	Time Study Data was Taken	Day/Time Oper	Clinical signs / Comments	
49	89F00136	M/10/3	20-Jun-89	14:11	12 / 20:07	9	disoriented, slight inactive, slight
			20-Jun-89	14:15	13 / 08:12	9	yellow ocular discharge, moderate disoriented, slight
			20-Jun-89	14:22	13 / 10:18	9	inactive, slight yellow ocular discharge, moderate disoriented, moderate
			20-Jun-89	14:29	13 / 14:03	9	inactive, moderate yellow ocular discharge, moderate disoriented, slight
			20-Jun-89	14:33	14 / 08:57	9	yellow ocular discharge, moderate disoriented, slight inactive, slight
			20-Jun-89	14:59	14 / 10:20	9	wide-legged stance, slight ocular discharge, slight, both disoriented, moderate inactive, moderate
			20-Jun-89	15:07	14 / 15:16	9	hunched posture, slight ocular discharge, moderate, both disoriented, slight
			20-Jun-89	15:11	15 / 07:50	9	ocular discharge, moderate, both disoriented, slight
			21-Jun-89	08:59	1 / 08:37	9	inactive, slight uncoordinated, slight lack of grooming, slight
			21-Jun-89	09:09	1 / 11:36	9	normal/no significant signs
			21-Jun-89	09:24	1 / 15:03	9	normal/no significant signs
			21-Jun-89	09:33	2 / 07:43	9	uncoordinated, slight lack of grooming, slight disoriented, slight
			21-Jun-89	09:56	2 / 10:55	9	uncoordinated, slight hunched posture, slight tremors, moderate
			21-Jun-89	10:09	2 / 14:40	9	inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	#		
50	89F00175	M/10/4				
		21-Jun-89	10:09	2 / 14:40	9	hunched posture, slight
		21-Jun-89	10:23	3 / 07:49	9	normal/no significant signs
		21-Jun-89	10:30	3 / 10:42	9	inactive, slight
						hunched posture, slight
		21-Jun-89	10:36	3 / 15:09	9	inactive, slight
		21-Jun-89	10:40	4 / 09:30	9	normal/no significant signs
		21-Jun-89	10:46	4 / 12:52	9	hunched posture, slight
						inactive, slight
		21-Jun-89	10:50	4 / 17:15	9	hunched posture, slight
						inactive, slight
		22-Jun-89	09:20	5 / 09:10	9	hunched posture, slight
						inactive, slight
		22-Jun-89	09:23	5 / 11:33	9	hunched posture, slight
						inactive, slight
		22-Jun-89	09:26	5 / 17:15	9	hunched posture, slight
						inactive, slight
		22-Jun-89	09:28	6 / 08:00	9	hunched posture, slight
						inactive, slight
		22-Jun-89	09:34	6 / 10:56	9	hunched posture, moderate
						inactive, slight
		22-Jun-89	09:42	6 / 14:42	9	hunched posture, moderate
						inactive, slight
						uncoordinated, slight
		22-Jun-89	09:47	7 / 08:38	9	inactive, slight
		22-Jun-89	09:57	7 / 10:12	9	inactive, moderate
						uncoordinated, moderate
						disoriented, moderate
						hunched posture, slight
						tremors, slight
		22-Jun-89	10:04	7 / 14:45	9	inactive, moderate
		22-Jun-89	10:18	8 / 07:54	9	disoriented, slight
		22-Jun-89	10:23	8 / 10:55	9	disoriented, moderate
						inactive, moderate
		22-Jun-89	10:27	8 / 15:07	9	inactive, moderate
		22-Jun-89	13:34	9 / 08:28	9	inactive, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 80010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

PRINTED: 26-Oct-89  
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 SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
50	89F00175	M/10/4			
		22-Jun-89 13:34	9 / 08:28	9	disoriented, slight
		22-Jun-89 13:39	9 / 10:31	9	inactive, moderate
					disoriented, slight
		22-Jun-89 13:45	9 / 14:39	9	inactive, moderate
		22-Jun-89 13:49	10 / 08:21	9	inactive, slight
		22-Jun-89 13:57	10 / 10:23	9	inactive, moderate
					disoriented, slight
					hunched posture, moderate
		22-Jun-89 14:02	10 / 14:35	9	disoriented, slight
		22-Jun-89 14:09	11 / 08:38	9	disoriented, slight
					inactive, slight
		22-Jun-89 14:14	11 / 11:30	9	hunched posture, slight
		22-Jun-89 14:18	11 / 20:17	9	hunched posture, slight
		22-Jun-89 14:24	12 / 08:26	9	hunched posture, slight
		22-Jun-89 14:33	12 / 11:01	9	hunched posture, slight
					inactive, slight
					increased respiration, slight
		22-Jun-89 14:38	12 / 14:11	9	inactive, slight
					hunched posture, moderate
		22-Jun-89 14:53	13 / 09:12	9	inactive, slight
					hunched posture, slight
					lack of appetite, slight
		22-Jun-89 14:59	13 / 11:01	9	inactive, moderate
					hunched posture, moderate
					increased respiration, slight
		22-Jun-89 15:03	13 / 15:28	9	inactive, moderate
					hunched posture, moderate
		22-Jun-89 15:07	14 / 08:04	9	inactive, moderate
					hunched posture, moderate
					increased respiration, slight
		22-Jun-89 15:14	14 / 09:43	9	disoriented, slight
					inactive, moderate
					lameness, severe, rt fore leg
		22-Jun-89 15:20	14 / 14:59	9	lameness, severe, rt fore leg
		22-Jun-89 15:26	15 / 07:16	9	lameness, severe, rt fore leg

# Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010M  
 Data Listing by Animal  
 Study Start Date: 25-Apr-89

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 SUB-ACUTE/

Cage #	Animal Sex/group Date and Time	Study Day/time Oper	Clinical signs / Comments
50 89F00175	M/10/4	22-Jun-89 15:26	15 / 07:16 9 inactive, slight hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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Cage #	Animal Sex/group	Date	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
1	89F00339	F / 1/1	08-Aug-89 14:19	1 / 10:15	9	normal/no significant signs
			08-Aug-89 14:35	1 / 11:16	9	disoriented, moderate uncoordinated, moderate inactive, slight
			08-Aug-89 14:46	1 / 16:13	9	increased respiratory depth, slight
			08-Aug-89 14:57	2 / 08:10	9	normal/no significant signs
			08-Aug-89 15:03	2 / 09:15	9	disoriented, moderate inactive, slight apprehensive, slight sways head, slight
			08-Aug-89 15:14	2 / 14:01	9	disoriented, slight uncoordinated, slight wide-legged stance, slight
			08-Aug-89 15:23	3 / 07:28	9	inactive, slight sways head, slight
			08-Aug-89 15:33	3 / 09:55	9	inactive, slight disoriented, slight
			10-Aug-89 08:33	3 / 15:17	9	increased respiratory depth, slight
			10-Aug-89 09:36	4 / 07:30	9	increased water consumption, severe inactive, slight
			10-Aug-89 09:48	4 / 10:40	9	sways head, slight disoriented, slight
			10-Aug-89 09:56	4 / 14:31	9	increased respiratory depth, moderate apprehensive, slight
					9	disoriented, moderate sways head, slight
			10-Aug-89 10:05	5 / 08:02	9	hunched posture, moderate
			10-Aug-89 10:08	5 / 11:09	9	normal/no significant signs
			10-Aug-89 10:13	5 / 16:55	9	increased water consumption, slight
			10-Aug-89 13:01	6 / 08:17	9	increased water consumption, moderate
			10-Aug-89 13:05	6 / 10:36	9	normal/no significant signs
			10-Aug-89 13:09	6 / 15:48	9	increased water consumption, slight
			10-Aug-89 13:13	7 / 08:28	9	increased water consumption, severe
			10-Aug-89 13:19	7 / 09:42	9	normal/no significant signs uncoordinated, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89		PRINTED: 26-Oct-89 Page: 2	
Cage Animal Sex/group Date and Time				Study Day/Time Oper		SUB-ACUTE/	
#	Number /Subgroup	Date Was Entered	Date	Was Taken	#	Clinical signs / Comments	
1	89F00339 F / 1/1	10-Aug-89	13:19	7 / 09:42	9	hunched posture, moderate	
		10-Aug-89	13:39	7 / 14:36	9	hunched posture, moderate	
		10-Aug-89	14:07	8 / 08:11	9	increased respiration, slight	
						hunched posture, slight	
						increased respiration, slight	
						disoriented, slight	
		10-Aug-89	14:12	8 / 09:40	9	hunched posture, moderate	
						increased respiration, moderate	
						disoriented, moderate	
		10-Aug-89	14:18	8 / 14:01	9	hunched posture, moderate	
		10-Aug-89	14:26	9 / 07:31	9	disoriented, slight	
		10-Aug-89	14:32	9 / 09:44	9	hunched posture, slight	
						inactive, slight	
						hunched posture, moderate	
						increased respiration, slight	
						disoriented, slight	
		10-Aug-89	14:42	9 / 14:35	9	disoriented, slight	
		10-Aug-89	15:00	10 / 07:13	9	disoriented, slight	
		10-Aug-89	15:05	10 / 09:49	9	increased respiration, slight	
						hunched posture, slight	
		10-Aug-89	15:11	10 / 14:08	9	normal/no significant signs	
		10-Aug-89	15:16	11 / 07:31	9	normal/no significant signs	
		10-Aug-89	15:21	11 / 09:30	9	hunched posture, slight	
						increased respiration, slight	
						disoriented, slight	
						inactive, slight	
						startles, slight	
		10-Aug-89	15:27	11 / 14:12	9	increased water consumption, slight	
		14-Aug-89	09:13	12 / 07:57	9	normal/no significant signs	
		14-Aug-89	09:17	12 / 09:39	9	normal/no significant signs	
		14-Aug-89	09:24	12 / 15:37	9	normal/no significant signs	
		14-Aug-89	09:28	13 / 06:14	9	normal/no significant signs	
		14-Aug-89	09:32	13 / 09:36	9	increased respiration, slight	
						inactive, slight	
		14-Aug-89	09:38	13 / 13:44	9	increased respiration, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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Cage #	Animal Sex/group	Date	Time Data Entered	Study Day/Time Oper Data Was Taken	Clinical signs / Comments
1	89F00339	F / 1/1	14-Aug-89 09:43	14 / 08:00	hunched posture, slight
			14-Aug-89 09:53	14 / 10:47	hunched posture, slight inactive, slight pulled catheter
			14-Aug-89 10:02	14 / 16:01	increased water consumption, moderate
			14-Aug-89 10:06	15 / 07:12	hunched posture, moderate
			08-Aug-89 14:21	1 / 10:10	normal/no significant signs
			08-Aug-89 14:36	1 / 11:34	hunched posture, moderate inactive, moderate
			08-Aug-89 14:47	1 / 16:12	increased respiration, slight increased respiration, slight lacrimation, moderate, both eyes
			08-Aug-89 14:57	2 / 08:05	normal/no significant signs
			08-Aug-89 15:04	2 / 09:08	hunched posture, moderate inactive, moderate increased respiration, slight lacrimation, moderate disoriented, moderate
			08-Aug-89 15:14	2 / 14:01	inactive, slight disoriented, slight lacrimation, slight
			08-Aug-89 15:26	3 / 07:09	inactive, slight increased respiration, slight lacrimation, slight
			08-Aug-89 15:34	3 / 09:54	inactive, slight increased respiration, slight lacrimation, slight hunched posture, moderate disoriented, slight
			10-Aug-89 08:33	3 / 15:16	inactive, slight disoriented, slight
			10-Aug-89 09:37	4 / 07:29	increased respiration, slight
			10-Aug-89 09:49	4 / 10:30	inactive, moderate hunched posture, moderate disoriented, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Cage #	Animal Number	Sex	Group	Date Entered	Time Data Was Taken	Study Day/time Oper	Clinical signs / Comments
2	89F00338	F	1/1	10-Aug-89	09:49	4 / 10:30	9 increased respiration, moderate
				10-Aug-89	09:56	4 / 14:33	9 inactive, moderate hunched posture, slight disoriented, moderate increased respiration, moderate normal/no significant signs
				10-Aug-89	10:05	5 / 08:01	9 normal/no significant signs
				10-Aug-89	10:08	5 / 11:05	9 inactive, slight
				10-Aug-89	10:13	5 / 16:54	9 inactive, slight
				10-Aug-89	13:02	6 / 08:16	9 normal/no significant signs
				10-Aug-89	13:05	6 / 10:36	9 disoriented, slight
				10-Aug-89	13:09	6 / 15:48	9 normal/no significant signs
				10-Aug-89	13:13	7 / 08:25	9 normal/no significant signs
				10-Aug-89	13:20	7 / 09:35	9 hunched posture, moderate inactive, moderate disoriented, moderate hunched posture, moderate disoriented, moderate
				10-Aug-89	13:40	7 / 14:35	9 hunched posture, moderate disoriented, moderate
				10-Aug-89	14:07	8 / 08:09	9 disoriented, slight hunched posture, slight inactive, slight wide-legged stance, slight hunched posture, slight
				10-Aug-89	14:12	8 / 09:40	9 hunched posture, slight inactive, slight dark material in nare, moderate increased respiration, slight
				10-Aug-89	14:18	8 / 14:01	9 hunched posture, slight inactive, slight dark material in nare, moderate
				10-Aug-89	14:26	9 / 07:30	9 inactive, slight dark material in nare, moderate
				10-Aug-89	14:32	9 / 09:39	9 inactive, slight dark material in nare, moderate hunched posture, slight disoriented, slight increased respiration, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89		PRINTED: 26-Oct-89 Page: 5 SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
2	89F00336	F / 1/1	10-Aug-89 14:32	9 / 09:39	9	Increased respiratory depth, moderate	
			10-Aug-89 14:44	9 / 14:33	9	dark material in nare, moderate disoriented, slight	
		10-Aug-89	15:00	10 / 07:12	9	Increased respiratory depth, slight irritation in eye, moderate, left eye	
			15:06	10 / 09:41	9	dark material in nare, moderate disoriented, slight	
		10-Aug-89	15:11	10 / 14:08	9	dark material in nare, moderate	
			15:16	11 / 07:31	9	dark material in nare, moderate hunched posture, slight	
		10-Aug-89	15:22	11 / 09:20	9	inactive, slight	
					9	hunched posture, slight disoriented, slight	
		10-Aug-89	15:27	11 / 14:11	9	Increased respiration, slight	
			09:14	12 / 07:56	9	Increased respiratory depth, slight	
		14-Aug-89	09:17	12 / 09:15	9	normal/no significant signs	
			09:25	12 / 15:37	9	normal/no significant signs	
		14-Aug-89	09:28	13 / 06:14	9	normal/no significant signs	
			09:32	13 / 09:37	9	normal/no significant signs	
3	89F00352	F / 1/2	14-Aug-89 09:38	13 / 13:44	9	inactive, slight	
					9	Increased respiration, slight	
		14-Aug-89	09:44	14 / 08:01	9	hunched posture, slight	
			09:54	14 / 10:08	9	normal/no significant signs	
		14-Aug-89	10:02	14 / 16:00	9	disoriented, slight	
			10:07	15 / 07:06	9	hunched posture, slight	
		14-Aug-89	10:16	1 / 08:30	9	disoriented, slight	
			10:42	1 / 10:36	9	hunched posture, slight	
		14-Aug-89	10:47	1 / 14:05	9	inactive, slight	
					9	normal/no significant signs	
					9	disoriented, slight	
					9	Increased water consumption, moderate	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Cage #	Animal Sex/group Date and Number /Subgroup Data Was Entered	Time Data Was Taken	Study Day/time Oper	Clinical signs / Comments
3	89F00352 F/ 1/2	23-Aug-89 14:25	2 / 08:07	9 pulled catheter
		23-Aug-89 14:29	2 / 10:42	9 disoriented, slight
		23-Aug-89 14:40	2 / 15:26	9 increased respiration, moderate
		23-Aug-89 14:45	3 / 08:16	9 increased respiration, slight
		23-Aug-89 14:48	3 / 11:16	9 increased water consumption, slight
		23-Aug-89 14:57	3 / 14:45	9 normal/no significant signs
		23-Aug-89 15:01	4 / 08:09	9 disoriented, moderate
		23-Aug-89 15:05	4 / 10:40	9 increased respiration, slight
		23-Aug-89 15:09	4 / 17:06	9 normal/no significant signs
		23-Aug-89 15:13	5 / 08:24	9 normal/no significant signs
		23-Aug-89 15:16	5 / 11:13	9 normal/no significant signs
		23-Aug-89 15:21	5 / 15:54	9 normal/no significant signs
		02-Oct-89 09:17	6 / 08:47	4 normal/no significant signs
		02-Oct-89 09:26	6 / 10:40	4 disoriented, slight
		02-Oct-89 09:38	6 / 14:47	4 inactive, slight
		07-Sep-89 13:02	7 / 08:24	9 disoriented, moderate
		07-Sep-89 13:17	7 / 10:15	9 increased respiration, moderate
		07-Sep-89 13:28	7 / 14:10	9 inactive, slight
		07-Sep-89 13:34	8 / 06:54	9 apprehensive, slight
		07-Sep-89 13:41	8 / 10:40	9 hunched posture, moderate
		07-Sep-89 13:50	8 / 14:45	9 increased respiration, moderate
		07-Sep-89 14:05	9 / 07:30	9 normal/no significant signs
		07-Sep-89 14:21	9 / 10:49	9 increased respiration, slight
		07-Sep-89 14:26	9 / 14:21	9 normal/no significant signs
		07-Sep-89 14:30	10 / 08:00	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTEMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
3	89F00352 F / 1/2	07-Sep-89	14:40	10 / 12:00	9 increased respiration, moderate hunched posture, slight disoriented, slight normal/no significant signs
		07-Sep-89	14:47	10 / 14:25	9 normal/no significant signs
		07-Sep-89	14:53	11 / 08:08	9 normal/no significant signs
		07-Sep-89	14:58	11 / 09:50	9 normal/no significant signs
		07-Sep-89	15:05	11 / 15:45	9 normal/no significant signs
		07-Sep-89	15:18	12 / 06:25	9 normal/no significant signs
		07-Sep-89	15:23	12 / 09:55	9 increased respiration, slight hunched posture, slight inactive, moderate
		07-Sep-89	15:28	12 / 13:57	9 hunched posture, slight
		07-Sep-89	15:33	13 / 08:13	9 hunched posture, slight
		07-Sep-89	15:38	13 / 11:08	9 hunched posture, slight disoriented, slight inactive, slight
		07-Sep-89	15:45	13 / 16:10	9 increased water consumption, moderate
		07-Sep-89	15:50	14 / 08:30	9 inactive, slight
		07-Sep-89	15:54	14 / 11:30	9 hunched posture, slight
		07-Sep-89	16:02	14 / 14:05	9 normal/no significant signs
		07-Sep-89	16:06	15 / 06:56	9 hunched posture, slight apprehensive, moderate
		11-Sep-89	08:34	1 / 08:45	9 disoriented, slight startles, slight
		11-Sep-89	08:28	1 / 10:34	9 disoriented, slight aggressive, slight
		11-Sep-89	09:05	1 / 14:07	9 hunched posture, moderate disoriented, slight
		11-Sep-89	09:14	2 / 08:18	9 hunched posture, moderate inactive, slight
		11-Sep-89	09:21	2 / 10:50	9 hunched posture, slight inactive, slight apprehensive, slight startles, slight
		11-Sep-89	09:21	2 / 10:50	9 hunched posture, moderate

4 89F00369 F / 1/3

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETICIA MAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

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Cage #	Animal Sex/group Number /Subgroup	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
4	89F00369	F/ 1/3	11-Sep-89	09:21	2 / 10:50	9	startles, slight
			11-Sep-89	09:33	2 / 14:09	9	increased respiration, slight
			11-Sep-89	09:42	3 / 07:08	9	hunched posture, slight
						9	apprehensive, slight
			11-Sep-89	09:49	3 / 11:00	9	increased respiration, slight
			11-Sep-89	09:53	3 / 14:30	9	increased water consumption, moderate
			11-Sep-89	09:59	4 / 08:26	9	increased water consumption, moderate
						9	apprehensive, moderate
						9	startles, slight
						9	hunched posture, slight
						9	inactive, slight
						9	increased respiration, slight
			11-Sep-89	10:12	4 / 11:14	9	apprehensive, slight
						9	startles, slight
						9	increased respiration, moderate
			11-Sep-89	10:18	4 / 14:51	9	normal/no significant signs
			11-Sep-89	10:23	5 / 08:34	9	normal/no significant signs
			11-Sep-89	10:31	5 / 10:10	9	normal/no significant signs
			11-Sep-89	10:36	5 / 16:04	9	normal/no significant signs
			11-Sep-89	10:43	6 / 07:20	9	aggressive, slight
						9	redness, slight, dewlap
			11-Sep-89	10:46	6 / 11:08	9	redness, slight, dewlap
						9	increased water consumption, slight
			11-Sep-89	10:54	6 / 14:14	9	hunched posture, slight
						9	inactive, slight
			11-Sep-89	11:03	7 / 07:55	9	abscess, severe, dewlap
			11-Sep-89	11:09	7 / 11:28	9	abscess, severe, dewlap
						9	apprehensive, slight
						9	hunched posture, slight
						9	inactive, slight
			11-Sep-89	11:16	7 / 16:20	9	abscess, severe, dewlap
			11-Sep-89	11:21	8 / 07:38	9	abscess, severe, dewlap
						9	abscess, severe, moderate
						9	hunched posture, slight
						9	inactive, slight
			11-Sep-89	11:25	8 / 11:00	9	abscess, severe, dewlap

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs without Masses

Study Number: 880103

Data Listing by Animal

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Cage #	Animal Sex/group Number /Subgroup	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Comments
4	89F00369	F / 1/3	11-Sep-89 11:25	8 / 11:00 9 hunched posture, moderate disoriented, slight
		11-Sep-89 11:49	8 / 14:18 9	abscess, severe, dewlap disoriented, slight
		11-Sep-89 12:03	9 / 08:05 9	abscess, severe, dewlap increased water consumption, moderate
		11-Sep-89 12:07	9 / 09:50 9	abscess, severe, dewlap increased water consumption, slight uncoordinated, slight startles, moderate
		11-Sep-89 12:13	9 / 14:06 9	abscess, severe, dewlap
		11-Sep-89 12:23	10 / 07:24 9	abscess, severe, dewlap hunched posture, moderate
		11-Sep-89 12:27	10 / 10:13 9	abscess, severe, dewlap hunched posture, moderate disoriented, slight
		11-Sep-89 12:34	10 / 14:42 9	abscess, moderate, dewlap
		11-Sep-89 12:46	11 / 07:20 9	abscess, moderate, dewlap hunched posture, moderate
		11-Sep-89 12:54	11 / 09:33 9	abscess, moderate, dewlap hunched posture, moderate inactive, moderate
		11-Sep-89 13:01	11 / 15:01 9	abscess, moderate, dewlap hunched posture, moderate
		11-Sep-89 13:05	12 / 07:35 9	inactive, moderate
				abscess, moderate, dewlap hunched posture, moderate
		11-Sep-89 13:09	12 / 10:10 9	inactive, moderate
				abscess, moderate, dewlap hunched posture, moderate
		11-Sep-89 13:15	12 / 14:44 9	abscess, moderate, dewlap hunched posture, slight
		11-Sep-89 13:26	13 / 07:40 9	abscess, moderate, dewlap startles
		11-Sep-89 13:30	13 / 09:25 9	abscess, moderate, dewlap

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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PRESIDIO OF SAN FRANCISCO, CA 94129				Data Listing by Animal			
RABBIT/NEW ZEALAND WHITE				Study Start Date: 30-May-89		SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
4	89F00369 F/ 1/3	11-Sep-89 13:30	13 / 09:25	9	hunched posture, moderate		
		11-Sep-89 13:37	13 / 14:05	9	inactive, slight		
					abscess, moderate, dewlap		
					hunched posture, slight		
					inactive, slight		
5	89F00377 F/ 1/4	11-Sep-89 13:46	14 / 08:17	9	increased respiration, slight		
		11-Sep-89 13:55	14 / 09:47	9	abscess, severe, dewlap		
		11-Sep-89 14:03	14 / 14:12	9	hunched posture, moderate		
		11-Sep-89 14:10	15 / 07:26	9	abscess, severe, dewlap		
		12-Sep-89 08:01	1 / 08:29	9	increased respiration, slight		
		12-Sep-89 08:03	1 / 11:10	9	wide-legged stance, moderate		
		12-Sep-89 08:14	1 / 14:23	9	hunched posture, slight		
		12-Sep-89 08:19	2 / 08:01	9	wide-legged stance, moderate		
		12-Sep-89 08:27	2 / 11:25	9	stained nares, slight		
		12-Sep-89 08:32	2 / 14:37	9	wide-legged stance, slight		
		12-Sep-89 08:37	3 / 08:45	9	increased water consumption, moderate		
					inactive, slight		
					increased water consumption, moderate		
					wide-legged stance, moderate		
					disoriented, slight		
					increased respiratory depth, slight		
					tremors, slight		
					disoriented, moderate		
					increased respiratory depth, slight		
					hunched posture, slight		
					disoriented, slight		
					inactive, slight		
					normal/no significant signs		

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Cage #	Animal Sex/group	Date Data Entered	Time Data Entered	Study Day/time	Oper Data Taken	#	Clinical signs / Comments
5	89F00377	F	1/4	12-Sep-89	09:23	4	10:26 9 Increased water consumption, slight
				12-Sep-89	09:28	4	16:11 9 inactive, moderate
				12-Sep-89	09:32	5	07:28 9 normal/no significant signs
				12-Sep-89	09:42	5	11:26 9 stained nares, slight
				12-Sep-89	09:50	5	14:22 9 Increased water consumption, slight
				12-Sep-89	09:58	6	08:08 9 inactive, slight
				12-Sep-89	10:04	6	11:34 9 hunched posture, slight
				12-Sep-89	10:13	6	16:23 9 loose stool, slight
				12-Sep-89	10:21	7	07:48 9 hunched posture, moderate
				12-Sep-89	10:31	7	11:16 9 increased respiratory depth, slight
				12-Sep-89	10:53	7	14:23 9 loose stool, slight
				12-Sep-89	10:57	8	08:14 9 increased respiratory depth, slight
				12-Sep-89	11:02	8	10:10 9 increased respiratory depth, slight
				12-Sep-89	11:08	8	14:14 9 increased respiratory depth, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Cage #	Animal Sex/group	Date Data was Entered	Time Study Day/time Oper Data was Taken	Oper #	Clinical signs / Comments
5	89F00377 F / 1/4	12-Sep-89 11:08	8 / 14:14	9	inactive, slight
		12-Sep-89 11:14	9 / 07:31	9	disoriented, slight
		12-Sep-89 11:22	9 / 10:38	9	disoriented, moderate hunched posture, slight increased respiration, moderate uncoordinated, moderate
		12-Sep-89 11:28	9 / 14:48	9	increased water consumption, severe
		12-Sep-89 11:35	10 / 07:36	9	hunched posture, moderate increased respiration, moderate disoriented, moderate
		12-Sep-89 11:41	10 / 10:10	9	uncoordinated, moderate disoriented, moderate uncoordinated, moderate increased water consumption, slight
		12-Sep-89 11:47	10 / 15:07	9	inactive, slight
		12-Sep-89 11:51	11 / 07:47	9	normal/no significant signs
		12-Sep-89 11:56	11 / 10:39	9	inactive, slight hunched posture, moderate inactive, slight increased respiration, moderate disoriented, moderate uncoordinated, slight
		12-Sep-89 12:02	11 / 14:51	9	inactive, slight increased respiration, slight disoriented, slight
		12-Sep-89 12:09	12 / 07:52	9	disoriented, slight hunched posture, slight hyperactive, moderate
		12-Sep-89 12:13	12 / 11:00	9	disoriented, slight hunched posture, slight inactive, slight uncoordinated, slight
		12-Sep-89 12:22	12 / 14:12	9	disoriented, slight hunched posture, moderate inactive, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010F  
Data Listing by Animal  
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Cage #	Animal Sex/group	Date Entered	Time Data Was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
5	89F00377 F / 1/4	12-Sep-89	12:27	13 / 08:30	9 disoriented, slight hunched posture, slight increased respiration, slight uncoordinated, moderate
		12-Sep-89	12:33	13 / 09:57	9 disoriented, moderate hunched posture, moderate increased respiration, moderate increased water consumption, moderate
		12-Sep-89	12:40	13 / 14:29	9 disoriented, moderate hunched posture, moderate uncoordinated, slight
		12-Sep-89	12:48	14 / 07:39	9 tremors, moderate uncoordinated, moderate
		12-Sep-89	12:54	14 / 09:02	9 uncoordinated, moderate hunched posture, slight
		12-Sep-89	13:00	14 / 14:02	9 hunched posture, moderate inactive, moderate tremors, slight
		12-Sep-89	13:06	15 / 07:27	9 uncoordinated, slight hunched posture, slight inactive, slight tremors, slight
6	89F00337 F / 2/1	08-Aug-89	14:21	1 / 10:10	9 uncoordinated, slight normal/no significant signs
		08-Aug-89	14:38	1 / 11:10	9 hunched posture, slight inactive, slight disoriented, moderate
		08-Aug-89	14:48	1 / 16:10	9 uncoordinated, moderate dilated pupils, slight
		08-Aug-89	14:57	2 / 07:55	9 dilated pupils, slight increased respiration, slight
		08-Aug-89	15:05	2 / 09:00	9 normal/no significant signs inactive, slight disoriented, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Cage Animal Sex/group Date and Time Study Day/time Oper #	Raw Data Listings of Clinical Signs Without Masses	Clinical signs / Comments
6 89F00337 F / 2/1 08-Aug-89 15:05	2 / 09:00 9	uncoordinated, moderate dilated pupils, slight increased respiration, moderate
08-Aug-89 15:16	2 / 14:00 9	disoriented, moderate uncoordinated, slight dilated pupils, slight nasal discharge, clear, moderate wide-legged stance, moderate
08-Aug-89 15:28	3 / 07:02 9	dilated pupils, slight
08-Aug-89 15:36	3 / 09:42 9	dilated pupils, moderate disoriented, moderate uncoordinated, slight increased respiration, moderate nasal discharge, clear, moderate wide-legged stance, moderate increased water consumption, slight increased water consumption, slight dilated pupils, slight
10-Aug-89 08:34	3 / 15:15 9	increased respiration, slight increased water consumption, slight increased respiration, slight wide-legged stance, slight disoriented, slight
10-Aug-89 09:38	4 / 07:20 9	increased respiration, moderate increased water consumption, slight increased respiration, slight wide-legged stance, slight disoriented, slight
10-Aug-89 09:50	4 / 10:30 9	increased respiration, moderate wide-legged stance, slight disoriented, slight inactive, slight
10-Aug-89 09:57	4 / 14:30 9	increased respiration, moderate disoriented, slight normal/no significant signs
10-Aug-89 10:05	5 / 08:00 9	disoriented, slight inactive, slight
10-Aug-89 10:09	5 / 10:59 9	dilated pupils, slight disoriented, moderate normal/no significant signs
10-Aug-89 10:14	5 / 16:54 9	disoriented, moderate
10-Aug-89 13:02	6 / 08:15 9	normal/no significant signs
10-Aug-89 13:05	6 / 10:30 9	normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
6 89F00337	F/ 2/1			
	10-Aug-89	13:09	6 / 15:47	9 disoriented, slight
	10-Aug-89	13:14	7 / 08:24	9 disoriented, slight
	10-Aug-89	13:21	7 / 09:26	9 disoriented, moderate uncoordinated, moderate dilated pupils, slight nasal discharge, clear, slight wide-legged stance, moderate increased water consumption, slight disoriented, moderate dilated pupils, moderate disoriented, slight dilated pupils, moderate apprehensive, moderate disoriented, moderate dilated pupils, moderate inactive, slight
	10-Aug-89	13:41	7 / 14:34	9 disoriented, slight
	10-Aug-89	14:08	8 / 08:07	9 disoriented, slight
	10-Aug-89	14:13	8 / 09:32	9 disoriented, slight
	10-Aug-89	14:19	8 / 14:00	9 disoriented, slight
	10-Aug-89	14:26	9 / 07:27	9 increased respiration, slight
	10-Aug-89	14:33	9 / 09:27	9 normal/no significant signs
	10-Aug-89	14:45	9 / 14:32	9 disoriented, slight
	10-Aug-89	15:01	10 / 07:10	9 normal/no significant signs
	10-Aug-89	15:06	10 / 09:41	9 disoriented, slight
	10-Aug-89	15:12	10 / 14:07	9 increased respiration, slight
	10-Aug-89	15:17	11 / 07:30	9 normal/no significant signs
	10-Aug-89	15:22	11 / 09:11	9 disoriented, slight
	10-Aug-89	15:27	11 / 14:10	9 inactive, slight
	14-Aug-89	09:14	12 / 07:55	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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DIV OF RES SUPP, PATH SERV GP  
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Study Date Listings of Clinical Signs Without Masses

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Study Number: 88010F

Data Listing by Animal

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Observed	Clinical signs / Comment
6	89F00337	F / 2/1	14-Aug-89	09:18	12 / 09:10 9 apprehensive, slight
			14-Aug-89	09:25	12 / 15:36 9 increased water consumption, slight
			14-Aug-89	09:28	13 / 06:13 9 normal/no significant signs
			14-Aug-89	09:33	13 / 09:35 9 apprehensive, slight
			14-Aug-89	09:39	13 / 13:43 9 inactive, moderate
			14-Aug-89	09:44	14 / 08:00 9 normal/no significant signs
			14-Aug-89	09:53	14 / 10:00 9 disoriented, slight
			14-Aug-89	10:02	14 / 16:00 9 disoriented, slight
			14-Aug-89	10:07	15 / 06:57 9 increased water consumption, slight
			14-Aug-89	10:16	1 / 09:40 9 increased water consumption, slight
			14-Aug-89	10:42	1 / 11:02 9 normal/no significant signs
			14-Aug-89	10:47	1 / 14:16 9 normal/no significant signs
			23-Aug-89	14:25	2 / 08:13 9 diarrhea, slight
			23-Aug-89	14:30	2 / 10:43 9 dilated pupils, moderate
			23-Aug-89	14:40	2 / 15:32 9 disoriented, slight
			23-Aug-89	14:45	3 / 08:24 9 uncoordinated, slight
			23-Aug-89	14:48	3 / 11:33 9 diarrhea, moderate
			23-Aug-89	14:57	3 / 15:13 9 increased water consumption, severe
			23-Aug-89	15:02	4 / 08:16 9 normal/no significant signs
			23-Aug-89	15:05	4 / 12:57 9 normal/no significant signs
			23-Aug-89	15:09	4 / 17:11 9 increased water consumption, moderate
			23-Aug-89	15:15	5 / 08:02 9 normal/no significant signs
			23-Aug-89	15:16	5 / 11:41 9 normal/no significant signs
			23-Aug-89	15:21	5 / 15:59 9 increased water consumption, moderate
			02-Oct-89	09:17	6 / 08:52 4 normal/no significant signs
			02-Oct-89	09:26	6 / 10:55 4 disoriented, moderate

7 89F00391 F / 2/2

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
7 69F00391	F / 2/2	02-Oct-89	09:26	4	uncoordinated, slight
		02-Oct-89	09:39	4	disoriented, moderate
			6 / 10:55		uncoordinated, moderate
			6 / 14:58		hyperactive, slight
		07-Sep-89	13:03	9	disoriented, moderate
			7 / 08:36		uncoordinated, moderate
					wide-legged stance, moderate
		07-Sep-89	13:17	9	disoriented, moderate
			7 / 10:28		increased respiration, slight
		07-Sep-89	13:28	9	disoriented, moderate
		07-Sep-89	13:34	9	disoriented, slight
		07-Sep-89	13:41	9	disoriented, moderate
			8 / 10:30		increased respiration, slight
		07-Sep-89	13:50	9	disoriented, moderate
			8 / 14:53		hunched posture, moderate
		07-Sep-89	14:06	9	disoriented, moderate
			9 / 07:50		uncoordinated, moderate
					tremors, moderate
		07-Sep-89	14:21	9	normal/no significant signs
		07-Sep-89	14:26	9	increased water consumption, severe
		07-Sep-89	14:31	9	disoriented, moderate
			10 / 08:14		uncoordinated, moderate
					tremors, moderate
		07-Sep-89	14:40	9	increased water consumption, slight
		07-Sep-89	14:48	9	normal/no significant signs
		07-Sep-89	14:53	9	normal/no significant signs
		07-Sep-89	14:59	9	normal/no significant signs
		07-Sep-89	15:05	9	increased water consumption, slight
		07-Sep-89	15:19	9	normal/no significant signs
		07-Sep-89	15:23	9	normal/no significant signs
		07-Sep-89	15:28	9	normal/no significant signs
		07-Sep-89	15:34	9	normal/no significant signs
		07-Sep-89	15:38	9	normal/no significant signs
		07-Sep-89	15:45	9	increased water consumption, moderate
		07-Sep-89	15:51	9	increased water consumption, moderate
			13 / 11:10		
			13 / 16:14		
			14 / 08:45		

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Cage #	Animal Sex/group Date and Time	Study Day/time Oper	Clinical signs / Comments
#	Number /Subgroup Data was Entered	Data was Taken	
7	89F00391 F / 2/2	07-Sep-89 15:51	14 / 08:45 9 disoriented, slight
		07-Sep-89 16:02	14 / 14:13 9 normal/no significant signs
		07-Sep-89 16:06	15 / 08:33 9 normal/no significant signs
		14-Aug-89 10:17	1 / 09:35 9 normal/no significant signs
		14-Aug-89 10:42	1 / 10:48 9 inactive, moderate
			increased respiratory depth, slight
		14-Aug-89 10:48	1 / 14:12 9 disoriented, slight
		23-Aug-89 14:26	2 / 08:11 9 inactive, slight
		23-Aug-89 14:31	2 / 10:33 9 disoriented, moderate
			increased water consumption, slight
			hunched posture, moderate
			tremors, moderate
		23-Aug-89 14:41	2 / 15:30 9 inactive, slight
			hunched posture, slight
		23-Aug-89 14:45	3 / 08:24 9 inactive, moderate
			hunched posture, slight
		23-Aug-89 14:49	3 / 11:25 9 disoriented, moderate
			hunched posture, moderate
		23-Aug-89 14:58	3 / 15:10 9 disoriented, moderate
			hunched posture, slight
			inactive, slight
		23-Aug-89 15:02	4 / 08:14 9 inactive, moderate
		23-Aug-89 15:06	4 / 12:43 9 inactive, slight
			increased water consumption, slight
		23-Aug-89 15:09	4 / 17:09 9 normal/no significant signs
		23-Aug-89 15:14	5 / 08:29 9 inactive, moderate
		23-Aug-89 15:17	5 / 11:27 9 inactive, slight
			increased water consumption, slight
		23-Aug-89 15:21	5 / 15:57 9 increased water consumption, slight
		02-Oct-89 09:18	6 / 08:47 4 disoriented, slight
			tremors, slight
			uncoordinated, moderate
		02-Oct-89 09:28	6 / 10:39 4 disoriented, slight
			inactive, moderate
			hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Cage #	Animal Sex/Group	Date Entered	Time Data Was Taken	Study Day/time Oper	Clinical signs / Comments
8	89F00358	F / 2/2	02-Oct-89	09:40	6 / 14:53 4
					inactive, moderate
					hunched posture, moderate
					dilated pupils, moderate
					inactive, moderate
					hunched posture, moderate
					apprehensive, severe
					inactive, moderate
					hunched posture, moderate
					increased respiratory depth, slight
					disoriented, moderate
					hunched posture, moderate
					disoriented, slight
					dilated pupils, moderate
					hunched posture, moderate
					inactive, moderate
					hunched posture, moderate
					inactive, moderate
					disoriented, moderate
					depressed, moderate
					hunched posture, moderate
					inactive, moderate
					disoriented, slight
					depressed, slight
					inactive, moderate
					apprehensive, moderate
					inactive, moderate
					inactive, slight
					dilated pupils, slight
					disoriented, moderate
					hunched posture, slight
					inactive, moderate
					depressed, moderate
					apprehensive, slight
					tremors, moderate
					uncoordinated, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LEYTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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SUB-ACUTE/

Cage #	Animal Sex/Group	Date and Time	Study Day/Time	Oper	Clinical signs / Comments
#	Number	Subgroup	Data was Entered	Data was Taken	#
8	89F00358	F / 2/2	07-Sep-89 14:33	10 / 08:10	9
			07-Sep-89 14:41	10 / 10:44	9
					orange colored urine, severe
					disoriented, slight
					hunched posture, slight
					inactive, moderate
					depressed, moderate
					orange colored urine, severe
					inactive, slight
					inactive, slight
					dilated pupils, slight
					orange colored urine, moderate
					uncoordinated, moderate
					inactive, moderate
					dilated pupils, slight
					disoriented, slight
					inactive, moderate
					dilated pupils, slight
					hunched posture, slight
					orange colored urine, slight
					apprehensive, slight
					inactive, moderate
					dilated pupils, slight
					hunched posture, moderate
					orange colored urine, slight
					apprehensive, slight
					inactive, moderate
					hunched posture, moderate
					orange colored urine, slight
					inactive, moderate
					hunched posture, moderate
					orange colored urine
					inactive, moderate
					hunched posture, moderate
					orange colored urine
					apprehensive



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
8	89F00358 F/ 2/2	07-Sep-89 15:46	13 / 16:12	9	orange colored urine apprehensive
		07-Sep-89 15:51	14 / 08:40	9	orange colored urine apprehensive
		07-Sep-89 15:56	14 / 10:21	9	hunched posture, moderate inactive, moderate
		07-Sep-89 16:02	14 / 14:09	9	increased respiratory depth, slight hunched posture, slight
		07-Sep-89 16:06	15 / 08:12	9	normal/no significant signs
		11-Sep-89 08:35	1 / 08:45	9	normal/no significant signs
		11-Sep-89 08:29	1 / 10:42	9	disoriented, slight increased respiration, moderate
		11-Sep-89 09:06	1 / 14:08	9	disoriented, slight hunched posture, moderate
		11-Sep-89 09:14	2 / 08:21	9	normal/no significant signs
		11-Sep-89 09:21	2 / 11:01	9	increased respiration, slight disoriented, moderate
		11-Sep-89 09:33	2 / 14:11	9	hunched posture, moderate tremors, moderate
		11-Sep-89 09:42	3 / 07:14	9	increased respiration, slight disoriented, moderate
		11-Sep-89 09:49	3 / 11:14	9	hunched posture, slight tremors, slight
		11-Sep-89 09:53	3 / 14:31	9	normal/no significant signs
		11-Sep-89 10:00	4 / 08:35	9	normal/no significant signs
		11-Sep-89 10:12	4 / 11:15	9	increased water consumption, moderate disoriented, slight
		11-Sep-89 10:18	4 / 14:52	9	disoriented, slight inactive, slight
		11-Sep-89 10:23	5 / 08:36	9	increased respiration, slight increased water consumption, slight
		11-Sep-89 10:31	5 / 10:10	9	normal/no significant signs
		11-Sep-89 10:37	5 / 16:05	9	increased water consumption, slight increased water consumption, slight

9 89F00371 F/ 2/3

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Cage #	Animal Sex/group	Date and Time Data Was Entered	Study Day/time Oper Data Was Taken	#	Clinical signs / Comments
9	89F00371	F / 2/3			
		11-Sep-89 10:43	6 / 07:22	9	inactive, slight
		11-Sep-89 10:46	6 / 11:12	9	hunched posture, slight
		11-Sep-89 10:55	6 / 14:16	9	inactive, slight
		11-Sep-89 11:04	7 / 08:01	9	inactive, slight
		11-Sep-89 11:10	7 / 11:25	9	inactive, slight
					hunched posture, slight
		11-Sep-89 11:16	7 / 16:20	9	inactive, moderate
					hunched posture, moderate
		11-Sep-89 11:21	8 / 07:40	9	inactive, slight
					hunched posture, moderate
		11-Sep-89 11:25	8 / 11:00	9	hunched posture, moderate
					disoriented, moderate
		11-Sep-89 11:49	8 / 14:20	9	hunched posture, moderate
					inactive, slight
		11-Sep-89 12:03	9 / 08:08	9	inactive, slight
		11-Sep-89 12:07	9 / 09:55	9	inactive, moderate
					hunched posture, moderate
					disoriented, slight
					uncoordinated, moderate
					tremors, slight
		11-Sep-89 12:14	9 / 14:07	9	hunched posture, moderate
					uncoordinated, slight
					tremors, slight
		11-Sep-89 12:24	10 / 07:26	9	hunched posture, slight
					tremors, slight
		11-Sep-89 12:28	10 / 10:18	9	hunched posture, moderate
					tremors, slight
					disoriented, moderate
					uncoordinated, slight
		11-Sep-89 12:34	10 / 14:43	9	hunched posture, moderate
		11-Sep-89 12:47	11 / 07:22	9	hunched posture, slight
					inactive, slight
					disoriented, slight
					uncoordinated, slight
					tremors, slight

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Cage #	Animal Sex/group Number /Subgroup	Date and Data was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments	
9	89F00371	F / 2/3	11-Sep-89 12:54	11 / 09:46 9	hunched posture, slight inactive, slight
			11-Sep-89 13:02	11 / 15:02 9	hunched posture, moderate inactive, moderate
			11-Sep-89 13:06	12 / 07:37 9	increased water consumption, slight hunched posture, moderate tremors, slight
			11-Sep-89 13:10	12 / 10:10 9	hunched posture, slight disoriented, slight
			11-Sep-89 13:22	12 / 14:45 9	uncoordinated, slight hunched posture, slight disoriented, slight
			11-Sep-89 13:27	13 / 07:42 9	uncoordinated, moderate disoriented, slight tremors, moderate
			11-Sep-89 13:31	13 / 10:37 9	uncoordinated, slight disoriented, slight
			11-Sep-89 13:38	13 / 14:07 9	hunched posture, slight inactive, moderate
			11-Sep-89 13:47	14 / 08:20 9	hunched posture, severe lack of appetite, severe
			11-Sep-89 13:55	14 / 09:44 9	inactive, slight
			11-Sep-89 14:03	14 / 14:14 9	inactive, moderate
			11-Sep-89 14:10	15 / 07:29 9	hunched posture, moderate
10	89F00389	F / 2/4	12-Sep-89 07:52	1 / 08:27 9	inactive, moderate
			12-Sep-89 08:04	1 / 11:08 9	hunched posture, moderate
			12-Sep-89 08:14	1 / 14:20 9	hunched posture, moderate
			12-Sep-89 08:19	2 / 08:06 9	inactive, moderate
			12-Sep-89 08:27	2 / 11:24 9	hunched posture, moderate
					hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

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Cage #	Animal Sex/group	Date and Time Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
10	89F00389	F / 2/4			
		12-Sep-89 08:32	2 / 14:36	9	increased water consumption, severe
		12-Sep-89 08:37	3 / 08:55	9	normal/no significant signs
		12-Sep-89 08:51	3 / 11:37	9	increased respiration, slight
					disoriented, slight
					increased water consumption, slight
					hunched posture, slight
					increased respiration, slight
					increased water consumption, severe
					hunched posture, slight
					normal/no significant signs
					increased water consumption, moderate
					increased water consumption, moderate
					increased water consumption, moderate
					inactive, moderate
					increased water consumption, moderate
					inactive, moderate
					disoriented, slight
					increased water consumption, moderate
					inactive, moderate
					inactive, slight
					inactive, moderate
					increased water consumption, slight
					increased water consumption, severe
					inactive, moderate
					inactive, moderate
					inactive, slight
					increased respiration, slight
					hunched posture, slight
					normal/no significant signs
					increased respiratory depth, moderate
					increased respiration, slight
					disoriented, slight
					increased respiratory depth, moderate
					increased respiration, slight
					disoriented, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

## Raw Data Listings of Clinical Signs Without Masses

**Study Number: 88010F**

## Data Listing by Animal

**Study Start Date: 30-May-89**

# RAILY/NEW ZEALAND

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**SUB-ACUTE /**

Cage #	Animal Sex/group Number /Subgroup	Date	Time Data was Entered	Study Day/time Data was Taken	Oper #	Clinical signs / Comments
10	89F00389	F	12-Sep-89	11:03	8 / 10:30	9 tremors, moderate inactive, moderate increased water consumption, moderate increased respiratory depth, moderate increased respiration, moderate inactive, moderate increased respiration, slight inactive, slight increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:08	8 / 14:10	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, moderate inactive, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:14	9 / 07:29	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:22	9 / 10:35	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:29	9 / 14:47	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:35	10 / 07:32	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:42	10 / 10:05	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:47	10 / 15:06	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:51	11 / 07:42	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	11:57	11 / 10:39	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	12:02	11 / 14:48	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	12:09	12 / 07:48	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	12:13	12 / 10:51	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight
		12-Sep-89	12:13	12 / 10:51	9	increased water consumption, moderate increased respiratory depth, moderate increased respiration, slight inactive, slight increased respiration, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE		Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89		PRINTED: 26-Oct-89 Page: 26 SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data Was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
10 89F00389	F / 2/4	12-Sep-89 12:24	12 / 14:10	9	inactive, moderate
		12-Sep-89 12:27	13 / 08:29	9	hunched posture, moderate
		12-Sep-89 12:33	13 / 09:50	9	inactive, moderate
		12-Sep-89 12:40	13 / 14:20	9	hunched posture, slight
		12-Sep-89 12:49	14 / 07:38	9	hunched posture, moderate
		12-Sep-89 12:54	14 / 08:55	9	hunched posture, moderate
		12-Sep-89 13:01	14 / 14:01	9	hunched posture, moderate
		12-Sep-89 13:07	15 / 07:21	9	hunched posture, moderate
					depressed, moderate
					depressed, moderate
					tremors, slight
					increased respiratory depth, moderate
					normal/no significant signs
11 89F00348	F / 3/1	08-Aug-89 14:22	1 / 10:49	9	inactive, moderate
		08-Aug-89 14:38	1 / 12:22	9	hunched posture, slight
		08-Aug-89 14:50	1 / 16:22	9	disoriented, moderate
		08-Aug-89 14:58	2 / 08:38	9	disoriented, slight
		08-Aug-89 15:06	2 / 10:15	9	disoriented, slight
		08-Aug-89 15:17	2 / 14:11	9	hunched posture, slight
		08-Aug-89 15:28	3 / 07:59	9	disoriented, slight
		08-Aug-89 15:36	3 / 10:13	9	inactive, slight
					inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
11 89F00348	F / 3/1	08-Aug-89 15:36	3 / 10:13	9	hunched posture, moderate
		10-Aug-89 08:35	3 / 15:23	9	increased water consumption, moderate
					increased water consumption, severe
		10-Aug-89 09:38	4 / 08:10	9	increased respiration, slight
		10-Aug-89 09:50	4 / 11:00	9	inactive, moderate
		10-Aug-89 09:57	4 / 14:37	9	disoriented, moderate
					disoriented, slight
		10-Aug-89 10:06	5 / 08:07	9	hunched posture, slight
					inactive, slight
		10-Aug-89 10:10	5 / 11:49	9	hunched posture, slight
					inactive, slight
					increased water consumption, severe
		10-Aug-89 10:14	5 / 17:02	9	increased respiration, slight
		10-Aug-89 13:02	6 / 08:21	9	increased water consumption, severe
		10-Aug-89 13:06	6 / 11:02	9	inactive, moderate
		10-Aug-89 13:09	6 / 15:52	9	increased water consumption, severe
		10-Aug-89 13:14	7 / 08:36	9	increased water consumption, severe
		10-Aug-89 13:21	7 / 10:17	9	inactive, slight
					hunched posture, moderate
					disoriented, moderate
		10-Aug-89 13:42	7 / 14:44	9	increased respiration, moderate
					wide-legged stance, slight
		10-Aug-89 14:08	8 / 08:20	9	disoriented, moderate
					wide-legged stance, slight
		10-Aug-89 14:13	8 / 10:04	9	disoriented, slight
					wide-legged stance, moderate
		10-Aug-89 14:20	8 / 14:05	9	disoriented, moderate
					wide-legged stance, moderate
		10-Aug-89 14:27	9 / 07:43	9	disoriented, moderate
					hunched posture, moderate
		10-Aug-89 14:33	9 / 10:07	9	disoriented, slight
					hunched posture, moderate
					wide-legged stance, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage Animal Sex/group Date and Time Study Day/time Oper

# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

11	89F00348	F	3/1	10-Aug-89	14:46	9 / 14:42	9	disoriented, moderate hunched posture, moderate wide-legged stance, moderate increased water consumption, moderate disoriented, moderate hunched posture, moderate wide-legged stance, moderate tremors, slight
				10-Aug-89	15:01	10 / 07:24	9	inactive, moderate increased water consumption, moderate disoriented, slight hunched posture, slight inactive, slight
				10-Aug-89	15:06	10 / 10:10	9	disoriented, slight hunched posture, slight inactive, slight
				10-Aug-89	15:12	10 / 14:19	9	disoriented, slight hunched posture, slight inactive, slight
				10-Aug-89	15:17	11 / 07:55	9	disoriented, slight hunched posture, slight inactive, slight
				10-Aug-89	15:23	11 / 10:20	9	disoriented, slight hunched posture, slight inactive, slight
				10-Aug-89	15:28	11 / 14:23	9	disoriented, slight hunched posture, slight inactive, slight
				14-Aug-89	09:14	12 / 08:07	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	09:19	12 / 09:34	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	09:25	12 / 15:43	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	09:29	13 / 06:22	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	09:34	13 / 10:08	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	09:39	13 / 13:54	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	09:44	14 / 08:10	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	09:55	14 / 10:35	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	10:03	14 / 16:06	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	10:07	15 / 08:21	9	disoriented, moderate hunched posture, slight inactive, moderate
				14-Aug-89	10:17	1 / 09:35	9	disoriented, moderate hunched posture, slight inactive, moderate

12 89F00355 F / 3/2



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE					Raw Data Listings of Clinical Signs Without Masses		Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89		PRINTED: 26-Oct-89 Page: 29 SUB-ACUTE/					
Cage #	Animal Sex/group	Date and Time Data Was Entered	Study Day/Time Oper Data Was Taken	#	Clinical signs / Comments									
12 89F00355	F / 3/2	14-Aug-89 10:43	1 / 10:42	9	increased water consumption, moderate									
		14-Aug-89 10:48	1 / 14:10	9	increased water consumption, severe									
		23-Aug-89 14:26	2 / 08:08	9	hunched posture, moderate									
		23-Aug-89 14:31	2 / 10:26	9	hunched posture, slight									
					increased water consumption, slight									
					disoriented, moderate									
		23-Aug-89 14:41	2 / 15:28	9	increased water consumption, moderate									
		23-Aug-89 14:46	3 / 08:19	9	normal/no significant signs									
		23-Aug-89 14:49	3 / 11:23	9	hunched posture, slight									
					disoriented, moderate									
23-Aug-89		14:58	3 / 14:47	9	dilated pupils, moderate									
					tremors, moderate									
					hunched posture, slight									
					disoriented, moderate									
					dilated pupils, moderate									
					tremors, moderate									
					23-Aug-89 15:02	4 / 08:12	9	normal/no significant signs						
					23-Aug-89 15:06	4 / 12:27	9	normal/no significant signs						
					23-Aug-89 15:10	4 / 17:07	9	increased water consumption, severe						
					23-Aug-89 15:14	5 / 08:26	9	inactive, moderate						
23-Aug-89		15:18	5 / 11:19	9	inactive, moderate									
					lack of appetite, slight									
					inactive, moderate									
					dilated pupils, slight									
					disoriented, moderate									
					wide-legged stance, moderate									
					23-Aug-89 09:40	6 / 14:49	4	disoriented, slight						
								dilated pupils, moderate						
					07-Sep-89 13:05	7 / 08:27	9	inactive, slight						
					07-Sep-89		13:18	7 / 10:17	9	hunched posture, slight				
disoriented, slight														
wide-legged stance, slight														
hunched posture, slight														
disoriented, moderate														
07-Sep-89 13:29	7 / 14:11	9	normal/no significant signs											

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Date Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments
12	89F00355	F / 3/2			
		07-Sep-89	13:35	8 / 07:47	9 disoriented, slight
		07-Sep-89	13:43	8 / 10:20	9 disoriented, moderate
		07-Sep-89	13:51	8 / 14:46	9 hunched posture, slight
		07-Sep-89	14:17	9 / 07:45	9 disoriented, slight
					9 disoriented, slight tremors, slight
		07-Sep-89	14:22	9 / 10:27	9 increased water consumption, slight
		07-Sep-89	14:27	9 / 14:22	9 increased water consumption, severe
					inactive, slight
		07-Sep-89	14:34	10 / 08:04	9 disoriented, slight
					9 startles, slight
		07-Sep-89	14:42	10 / 10:44	9 disoriented, slight
					9 hunched posture, slight tremors, slight
		07-Sep-89	14:49	10 / 14:37	9 increased water consumption, moderate
		07-Sep-89	14:54	11 / 08:11	9 normal/no significant signs
		07-Sep-89	15:02	11 / 09:50	9 tremors, slight
					inactive, moderate
		07-Sep-89	15:07	11 / 15:47	9 increased water consumption, slight
		07-Sep-89	15:19	12 / 06:28	9 normal/no significant signs
		07-Sep-89	15:24	12 / 10:33	9 normal/no significant signs
		07-Sep-89	15:30	12 / 13:59	9 increased water consumption, moderate
		07-Sep-89	15:34	13 / 08:15	9 disoriented, slight
		07-Sep-89	15:39	13 / 10:54	9 disoriented, slight
		07-Sep-89	15:46	13 / 16:11	9 increased water consumption, severe
		07-Sep-89	15:51	14 / 08:35	9 dilated pupils, moderate
					hyperactive, slight
		07-Sep-89	15:56	14 / 10:13	9 hunched posture, slight
					9 disoriented, slight
		07-Sep-89	16:02	14 / 14:07	9 wide-legged stance, moderate
					9 increased water consumption, severe
					inactive, slight
		07-Sep-89	16:06	15 / 07:48	9 hunched posture, slight
		11-Sep-89	08:35	1 / 08:45	9 normal/no significant signs
		11-Sep-89	08:29	1 / 10:41	9 increased respiration, slight
13	89F00370	F / 3/3			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
13	89F00370	F / 3/3	11-Sep-89	08:29	1 / 10:41	9 disoriented, moderate tremors, slight
			11-Sep-89	09:08	1 / 14:08	9 disoriented, slight aggressive, moderate
			11-Sep-89	09:15	2 / 08:20	9 normal/no significant signs
			11-Sep-89	09:22	2 / 11:00	9 increased vespiration, moderate disoriented, slight hunched posture, slight
			11-Sep-89	09:34	2 / 14:10	9 normal/no significant signs
			11-Sep-89	09:42	3 / 07:13	9 normal/no significant signs
			11-Sep-89	09:50	3 / 11:05	9 normal/no significant signs
			11-Sep-89	09:54	3 / 14:31	9 increased water consumption, moderate
			11-Sep-89	10:00	4 / 08:34	9 normal/no significant signs
			11-Sep-89	10:13	4 / 12:09	9 disoriented, slight increased respiration, slight
			11-Sep-89	10:19	4 / 14:52	9 normal/no significant signs
			11-Sep-89	10:23	5 / 08:35	9 normal/no significant signs
			11-Sep-89	10:31	5 / 10:04	9 increased water consumption, slight
			11-Sep-89	10:37	5 / 16:04	9 increased water consumption, slight
			11-Sep-89	10:43	6 / 07:21	9 normal/no significant signs
			11-Sep-89	10:47	6 / 10:32	9 increased respiration, slight
			11-Sep-89	10:55	6 / 14:14	9 tremors, slight
			11-Sep-89	11:04	7 / 07:59	9 disoriented, slight
			11-Sep-89	11:10	7 / 11:40	9 inactive, slight hunched posture, slight
			11-Sep-89	11:17	7 / 16:21	9 increased water consumption, moderate
			11-Sep-89	11:21	8 / 07:39	9 normal/no significant signs
			11-Sep-89	11:25	8 / 10:56	9 hunched posture, moderate
			11-Sep-89	11:50	8 / 14:18	9 increased water consumption, moderate
			11-Sep-89	12:03	9 / 08:07	9 increased water consumption, moderate
			11-Sep-89	12:08	9 / 10:24	9 hunched posture, moderate inactive, moderate
						9 disoriented, slight
			11-Sep-89	12:14	9 / 14:07	9 normal/no significant signs
			11-Sep-89	12:24	10 / 07:25	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time Data was Entered	Study Day/time	Oper	Clinical signs / Comments
13	89F00370	F / 3/3	11-Sep-89 12:28	10 / 10:17	9	hunched posture, moderate disoriented, slight
			11-Sep-89 12:35	10 / 14:43	9	increased water consumption, moderate
			11-Sep-89 12:47	11 / 07:21	9	hunched posture, slight
						dilated pupils, slight
			11-Sep-89 12:54	11 / 10:01	9	dilated pupils, slight
						increased water consumption, moderate
			11-Sep-89 13:02	11 / 15:01	9	increased water consumption, severe
			11-Sep-89 13:06	12 / 07:36	9	dilated pupils, slight
			11-Sep-89 13:10	12 / 10:00	9	dilated pupils, moderate
						hunched posture, slight
			11-Sep-89 13:22	12 / 14:44	9	dilated pupils, moderate
						hunched posture, slight
			11-Sep-89 13:27	13 / 07:41	9	dilated pupils, moderate
			11-Sep-89 13:31	13 / 09:37	9	dilated pupils, slight
						hunched posture, slight
						inactive, slight
			11-Sep-89 13:38	13 / 14:06	9	dilated pupils, slight
						hunched posture, slight
						inactive, slight
			11-Sep-89 13:47	14 / 08:18	9	increased respiration, slight
			11-Sep-89 13:56	14 / 10:00	9	increased water consumption, moderate
			11-Sep-89 14:04	14 / 14:14	9	increased respiration, slight
						aggressive, moderate
			11-Sep-89 14:10	15 / 07:27	9	normal/no significant signs
			11-Sep-89 08:35	1 / 08:45	9	normal/no significant signs
			11-Sep-89 08:30	1 / 10:37	9	increased respiration, slight
						inactive, slight
						hunched posture, slight
			11-Sep-89 09:08	1 / 14:07	9	normal/no significant signs
			11-Sep-89 09:16	2 / 08:16	9	inactive, slight
			11-Sep-89 09:24	2 / 10:49	9	increased respiration, slight
						hunched posture, moderate
			11-Sep-89 09:34	2 / 14:08	9	hunched posture, moderate
						inactive, slight
			11-Sep-89 09:43	3 / 07:07	9	normal/no significant signs
			11-Sep-89 09:50	3 / 11:01	9	normal/no significant signs

14 89F00368 F / 3/3

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PERS1210 OF SAN FRANCISCO, CA 94129  
 RAB2, Y/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010F  
 Data Listing by Animal  
 Study Start Date: 30-May-89

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Cage #	Animal Sex/group Data	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
14	89F00368 F/ 3/3	11-Sep-89 09:54	3 / 14:29	9 increased water consumption, moderate
		11-Sep-89 10:00	4 / 08:42	9 hunched posture, moderate apprehensive, moderate
		11-Sep-89 10:13	4 / 11:10	9 inactive, slight
		11-Sep-89 10:19	4 / 14:50	9 increased water consumption, moderate
		13-Sep-89 10:23	5 / 08:31	9 apprehensive, slight
		11-Sep-89 10:32	5 / 10:10	9 inactive, slight
		11-Sep-89 10:37	5 / 16:03	9 increased water consumption, slight
		11-Sep-89 10:43	6 / 07:19	9 apprehensive, moderate
		11-Sep-89 10:47	6 / 11:09	9 apprehensive, slight
		11-Sep-89 10:56	6 / 14:13	9 apprehensive, slight
		11-Sep-89 11:04	7 / 07:54	9 apprehensive, slight
		11-Sep-89 11:10	7 / 11:23	9 apprehensive, slight inactive, slight disoriented, slight
		11-Sep-89 11:17	7 / 16:18	9 increased water consumption, severe
		11-Sep-89 11:22	8 / 07:37	9 increased water consumption, severe dilated pupils, moderate uncoordinated, slight tremors, slight dilated pupils, moderate
		11-Sep-89 11:26	8 / 10:55	9 tremors, slight tremors, slight increased respiration, slight disoriented, slight
		11-Sep-89 11:50	8 / 14:17	9 increased water consumption, severe
		11-Sep-89 12:03	9 / 08:04	9 increased water consumption, severe inactive, moderate
		11-Sep-89 12:08	9 / 09:50	9 increased water consumption, moderate inactive, slight
		11-Sep-89 12:14	9 / 14:05	9 dilated pupils, moderate disoriented, slight
		11-Sep-89 12:24	10 / 07:24	9 dilated pupils, moderate disoriented, slight hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010F  
Data Listing by Animal  
Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
Number	/Subgroup	Data was Entered	Data was Taken	#		
14	89F00368	F / 3/3	11-Sep-89	12:29	10 / 10:04	9 disoriented, moderate hunched posture, slight increased water consumption, slight tremors, slight
			11-Sep-89	12:36	10 / 14:42	9 increased water consumption, severe
			11-Sep-89	12:48	11 / 07:18	9 disoriented, slight inactive, slight hunched posture, slight
			11-Sep-89	12:55	11 / 09:15	9 increased water consumption, slight
			11-Sep-89	13:03	11 / 15:00	9 increased water consumption, slight
			11-Sep-89	13:06	12 / 07:35	9 normal/no significant signs
			11-Sep-89	13:10	12 / 09:31	9 disoriented, slight hunched posture, slight
			11-Sep-89	13:22	12 / 14:43	9 disoriented, slight
			11-Sep-89	13:28	13 / 07:39	9 disoriented, slight dilated pupils, moderate tremors, moderate
			11-Sep-89	13:32	13 / 10:27	9 disoriented, slight dilated pupils, moderate
			11-Sep-89	13:39	13 / 14:05	9 hunched posture, slight
			11-Sep-89	13:47	14 / 08:16	9 dilated pupils, moderate
			11-Sep-89	13:56	14 / 09:40	9 hunched posture, slight
			11-Sep-89	14:04	14 / 14:12	9 hunched posture, slight
			11-Sep-89	14:11	15 / 07:26	9 increased water consumption, slight
			12-Sep-89	07:55	1 / 08:34	9 dilated pupils, moderate
			12-Sep-89	08:04	1 / 11:17	9 lacrimation, severe, right eye hunched posture, slight
			12-Sep-89	08:15	1 / 14:30	9 inactive, slight hunched posture, slight
			12-Sep-89	08:19	2 / 08:04	9 inactive, slight lacrimation, severe, right eye hunched posture, slight

15 89F00363 F / 3/4

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010F  
 Data Listing by Animal  
 Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Date was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments
15	89F00383 F/ 3/4	12-Sep-89 08:27	2 / 11:40 9 hunched posture, slight inactive, slight
		12-Sep-89 08:32	2 / 14:40 9 hunched posture, slight inactive, slight
		12-Sep-89 08:38	3 / 08:51 9 hunched posture, slight inactive, slight
		12-Sep-89 08:52	3 / 11:55 9 hunched posture, slight inactive, moderate
		12-Sep-89 09:05	3 / 15:01 9 normal/no significant signs
		12-Sep-89 09:20	4 / 09:01 9 normal/no significant signs
		12-Sep-89 09:23	4 / 10:45 9 normal/no significant signs
		12-Sep-89 09:28	4 / 16:17 9 inactive, slight
		12-Sep-89 09:32	5 / 07:32 9 increased water consumption, slight
		12-Sep-89 09:43	5 / 11:40 9 inactive, slight
			5 / 11:40 9 increased water consumption, moderate
			5 / 11:40 9 inactive, moderate
			5 / 11:40 9 tremors, slight
			5 / 11:40 9 disoriented, slight
			5 / 11:40 9 inactive, moderate
			5 / 11:40 9 hunched posture, moderate
			5 / 11:40 9 apprehensive, slight
			5 / 11:40 9 inactive, slight
			5 / 11:40 9 hunched posture, moderate
			5 / 11:40 9 tremors, slight
			5 / 11:40 9 disoriented, slight
			5 / 11:40 9 inactive, slight
			5 / 11:40 9 hunched posture, moderate
			5 / 11:40 9 inactive, slight
			5 / 11:40 9 increased water consumption, moderate
			5 / 11:40 9 disoriented, slight
			5 / 11:40 9 hunched posture, moderate
			5 / 11:40 9 tremors, moderate
			5 / 11:40 9 inactive, slight
			5 / 11:40 9 apprehensive, moderate
			5 / 11:40 9 apprehensive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH				Raw Data Listings of Clinical Signs Without Masses		PRINTED: 26-Oct-89	
DIV OF RES SUPP, PATH SERV GP				Study Number: 88010F		Page: 36	
PRESIDIO OF SAN FRANCISCO, CA 94129				Data Listing by Animal			
RABBIT/NEW ZEALAND WHITE				Study Start Date: 30-May-89		SUB-ACUTE/	
Cage #	Animal Sex/Group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	#	Clinical signs / Comments		
15	89F00363 F/ 3/4	12-Sep-89 11:03	8 / 10:37	9	tremors, moderate		
		12-Sep-89 11:09	8 / 14:17	9	apprehensive, slight disoriented, slight		
		12-Sep-89 11:15	9 / 07:37	9	apprehensive, slight disoriented, slight		
		12-Sep-89 11:23	9 / 10:46	9	apprehensive, moderate disoriented, moderate		
		12-Sep-89 11:29	9 / 14:52	9	tremors, moderate		
		12-Sep-89 11:35	10 / 07:41	9	normal/no significant signs apprehensive, slight		
					tremors, moderate disoriented, moderate		
					inactive, slight		
					hunched posture, slight		
		12-Sep-89 11:42	10 / 10:38	9	hunched posture, moderate		
					inactive, moderate		
		12-Sep-89 11:47	10 / 15:09	9	increased water consumption, moderate		
		12-Sep-89 11:52	11 / 07:51	9	tremors, slight		
		12-Sep-89 11:57	11 / 11:19	9	tremors, slight apprehensive, moderate		
					disoriented, slight		
					hunched posture, slight		
		12-Sep-89 12:03	11 / 14:55	9	tremors, moderate		
					disoriented, slight		
		12-Sep-89 12:10	12 / 07:56	9	inactive, slight		
					hunched posture, slight		
		12-Sep-89 12:13	12 / 11:30	9	inactive, slight		
					hunched posture, slight		
		12-Sep-89 12:24	12 / 14:15	9	inactive, slight		
					hunched posture, slight		
		12-Sep-89 12:28	13 / 08:35	9	apprehensive, slight		
		12-Sep-89 12:34	13 / 10:05	9	normal/no significant signs		
		12-Sep-89 12:41	13 / 14:25	9	apprehensive, slight		
					hunched posture, slight		
		12-Sep-89 12:49	14 / 07:47	9	apprehensive, moderate		

SUB-ACUTE/



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV 3P PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE					Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89					PRINTED: 26-Oct-89 Page: 37		SUB-ACUTE/	
Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time	Oper Data was Taken	Clinical signs / Comments							
15	89F00383 F / 3/4	12-Sep-89	12:49	14 / 07:47	9	inactive, slight							
		12-Sep-89	12:55	14 / 09:36	9	apprehensive, moderate tremors, moderate							
		12-Sep-89	13:01	14 / 14:09	9	apprehensive, slight							
		12-Sep-89	13:07	15 / 07:30	9	inactive, slight							
16	89F00345 F / 4/1	08-Aug-89	14:22	1 / 10:46	9	normal/no significant signs							
		08-Aug-89	14:40	1 / 12:06	9	disoriented, moderate							
						apprehensive, moderate startles, slight							
						increased respiratory depth, moderate							
		08-Aug-89	14:50	1 / 16:20	9	hyperactive, moderate							
						increased respiration, slight							
						apprehensive, moderate							
						hyperactive, severe							
						dilated pupils, moderate							
		08-Aug-89	14:58	2 / 08:30	9	hyperactive, slight							
						dilated pupils, slight							
		08-Aug-89	15:06	2 / 09:53	9	increased respiration, slight							
						dilated pupils, slight							
		08-Aug-89	15:18	2 / 14:08	9	disoriented, slight							
						apprehensive, slight							
						increased respiratory depth, slight							
		08-Aug-89	15:29	3 / 07:51	9	hyperactive, slight							
		08-Aug-89	15:38	3 / 10:07	9	dilated pupils, slight							
						dilated pupils, moderate							
						apprehensive, slight							
		10-Aug-89	08:36	3 / 15:21	9	hyperactive, slight							
						dilated pupils, moderate							
						increased respiration, slight							
		10-Aug-89	09:38	4 / 08:00	9	increased water consumption, moderate							
		10-Aug-89	09:51	4 / 10:45	9	normal/no significant signs							
						disoriented, moderate							
						increased respiratory depth, slight							

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical signs Without Masses  
Study Number: 88010F  
Data Listing by Animal  
Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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Cage Animal Sex/group Date and Time Study Day/time Oper

#	Number /Subgroup	Date was Entered	Data was Taken	Clinical signs / Comments
16	89F00345 F / 4/1	10-Aug-89 09:51	4 / 10:45	9 hyperactive, moderate increased respiration, moderate dilated pupils, moderate disoriented, slight increased respiration, slight dilated pupils, slight
		10-Aug-89 09:58	4 / 14:35	9 normal/no significant signs increased water consumption, severe increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, severe increased water consumption, severe
		10-Aug-89 10:06	5 / 08:05	9 hyperactive, moderate disoriented, moderate apprehensive, slight startles, moderate
		10-Aug-89 10:10	5 / 11:33	9 dilated pupils, moderate apprehensive, slight increased respiratory depth, slight dilated pupils, slight apprehensive, moderate increased respiratory depth, slight disoriented, slight
		10-Aug-89 10:14	5 / 16:57	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, moderate hunched posture, slight dilated pupils, slight increased respiratory depth, slight disoriented, moderate diarrhea, moderate
		10-Aug-89 13:02	6 / 08:19	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 13:06	6 / 10:53	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 13:10	6 / 15:51	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 13:15	7 / 08:34	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 13:22	7 / 10:10	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 13:42	7 / 14:42	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 14:09	8 / 08:16	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 14:14	8 / 09:59	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 14:21	8 / 14:03	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight
		10-Aug-89 14:27	9 / 07:38	9 hyperactive, moderate dilated pupils, moderate increased respiratory depth, moderate disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masks

Study Number: 88510F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
16	89F00345	F / 4/1	10-Aug-89 14:27	9 / 07:38	hyperactive, moderate
			10-Aug-89 14:34	9 / 10:02	disoriented, moderate
					hunched posture, moderate
					tremors, moderate
			10-Aug-89 14:46	9 / 14:39	disoriented, severe
					hunched posture, moderate
					diarrhea, slight
			10-Aug-89 15:02	10 / 07:20	disoriented, slight
					wide-legged stance, moderate
			10-Aug-89 15:07	10 / 10:04	normal/no significant signs
			10-Aug-89 15:12	10 / 14:17	normal/no significant signs
			10-Aug-89 15:17	11 / 07:51	wide-legged stance, moderate
			10-Aug-89 15:23	11 / 10:06	disoriented, moderate
					tremors, slight
					wide-legged stance, moderate
			10-Aug-89 15:28	11 / 14:16	normal/no significant signs
			14-Aug-89 09:14	12 / 08:05	normal/no significant signs
			14-Aug-89 09:19	12 / 09:27	normal/no significant signs
			14-Aug-89 09:26	12 / 15:41	dilated pupils, slight
			14-Aug-89 09:29	13 / 06:20	hunched posture, slight
			14-Aug-89 09:34	13 / 10:01	apprehensive, slight
					increased respiration, slight
			14-Aug-89 09:40	13 / 13:53	tremors, slight
					uncoordinated, slight
			14-Aug-89 09:44	14 / 08:07	hunched posture, slight
			14-Aug-89 09:56	14 / 10:35	disoriented, slight
					tremors, slight
					increased water consumption, moderate
					wide-legged stance, slight
			14-Aug-89 10:03	14 / 16:05	increased water consumption, moderate
			14-Aug-89 10:08	15 / 07:50	increased water consumption, moderate
					wide-legged stance, slight
					increased respiration, slight
					hunched posture, slight
			14-Aug-89 10:17	1 / 09:30	normal/no significant signs

17 89F00354 F / 4/2

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

New Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Date Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments
17	89F00354	F / 4/2	14-Aug-89	10:43	1 / 10:35 9 Increased respiration, slight disoriented, slight
			14-Aug-89	10:49	1 / 14:09 9 Increased respiration, slight disoriented, slight
			23-Aug-89	14:26	2 / 08:08 9 normal/no significant signs
			23-Aug-89	14:32	2 / 10:27 9 apprehensive, moderate
			23-Aug-89	14:41	2 / 15:27 9 normal/no significant signs
			23-Aug-89	14:46	3 / 08:18 9 disoriented, slight
			23-Aug-89	14:50	3 / 11:20 9 inactive, moderate
			23-Aug-89	14:58	3 / 16:46 9 Increased respiration, moderate disoriented, moderate
			23-Aug-89	15:02	4 / 08:10 9 Increased respiration, slight
			23-Aug-89	15:06	4 / 12:23 9 inactive, slight
			23-Aug-89	15:10	4 / 17:07 9 inactive, slight
			23-Aug-89	15:14	5 / 08:25 9 disoriented, slight
			23-Aug-89	15:18	5 / 11:20 9 Increased respiration, slight
			23-Aug-89	15:22	5 / 15:55 9 normal/no significant signs
			02-Oct-89	09:20	6 / 08:44 4 Increased water consumption, slight
			02-Oct-89	09:29	6 / 10:25 4 disoriented, moderate
			02-Oct-89	09:41	6 / 14:48 4 inactive, moderate
			07-Sep-89	13:06	7 / 08:25 9 disoriented, moderate
			07-Sep-89	13:19	7 / 10:14 9 disoriented, slight
			07-Sep-89	13:30	7 / 14:11 9 inactive, moderate
			07-Sep-89	13:37	8 / 07:46 9 Increased respiration, moderate hyperactive, moderate uncoordinated, moderate tremors, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Study Number: 88010F  
 Data Listing by Animal  
 Study Start Date: 30-May-89

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 SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
17	89F00354 F / 4/2	07-Sep-89	13:37	8 / 07:46	9 disoriented, slight
		07-Sep-89	13:44	8 / 10:20	9 increased respiration, moderate tremors, moderate disoriented, moderate inactive, slight
		07-Sep-89	13:51	8 / 14:46	9 disoriented, moderate inactive, moderate
		07-Sep-89	14:17	9 / 07:31	9 disoriented, slight inactive, slight
		07-Sep-89	14:22	9 / 10:20	9 increased water consumption, slight
		07-Sep-89	14:27	9 / 14:21	9 increased water consumption, moderate
		07-Sep-89	14:34	10 / 08:02	9 inactive, slight uncoordinated, slight tremors, slight
		07-Sep-89	14:43	10 / 10:40	9 disoriented, moderate inactive, moderate disoriented, moderate increased respiration, slight
		07-Sep-89	14:49	10 / 14:37	9 inactive, slight
		07-Sep-89	14:55	11 / 08:10	9 normal/no significant signs
		07-Sep-89	15:02	11 / 09:45	9 inactive, moderate
		07-Sep-89	15:08	11 / 15:47	9 increased respiration, slight
		07-Sep-89	15:20	12 / 06:28	9 normal/no significant signs
		07-Sep-89	15:24	12 / 10:32	9 increased respiration, slight
		07-Sep-89	15:30	12 / 13:59	9 increased respiration, slight inactive, moderate
		07-Sep-89	15:35	13 / 08:15	9 increased respiration, slight hyperactive, moderate
		07-Sep-89	15:40	13 / 10:52	9 hyperactive, moderate tremors, moderate disoriented, slight
		07-Sep-89	15:47	13 / 16:11	9 increased water consumption, slight
		07-Sep-89	15:52	14 / 08:32	9 hyperactive, slight
		07-Sep-89	15:57	14 / 10:10	9 hyperactive, slight
		07-Sep-89	16:03	14 / 14:06	9 inactive, slight
		07-Sep-89	16:06	15 / 07:38	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
18	89F00374	F / 4/3	11-Sep-89 08:35	1 / 08:48	9 normal/no significant signs
			11-Sep-89 08:31	1 / 10:47	9 apprehensive, slight increased respiration, slight
			11-Sep-89 09:08	1 / 14:11	9 apprehensive, slight
			11-Sep-89 09:16	2 / 08:22	9 normal/no significant signs
			11-Sep-89 09:24	2 / 10:58	9 increased respiration, moderate disoriented, moderate startles, moderate
			11-Sep-89 09:35	2 / 14:17	9 increased respiration, slight startles, moderate
			11-Sep-89 09:43	3 / 08:12	9 apprehensive, slight
			11-Sep-89 09:50	3 / 11:22	9 hunched posture, slight increased respiration, slight
			11-Sep-89 09:55	3 / 14:34	9 inactive, slight
			11-Sep-89 10:01	4 / 08:37	9 increased water consumption, moderate increased respiration, slight tremors, moderate
			11-Sep-89 10:14	4 / 11:28	9 uncoordinated, slight disoriented, moderate
			11-Sep-89 10:20	4 / 14:54	9 increased water consumption, moderate disoriented, slight
			11-Sep-89 10:24	5 / 08:40	9 increased water consumption, severe
			11-Sep-89 10:32	5 / 10:18	9 normal/no significant signs
			11-Sep-89 10:38	5 / 16:08	9 increased water consumption, slight
			11-Sep-89 10:43	6 / 07:25	9 increased water consumption, moderate
			11-Sep-89 10:47	6 / 11:18	9 normal/no significant signs
			11-Sep-89 10:57	6 / 14:18	9 inactive, moderate increased water consumption, moderate
			11-Sep-89 11:04	7 / 08:05	9 disoriented, slight inactive, moderate increased water consumption, slight
					9 disoriented, slight tremors, slight uncoordinated, slight

Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

### Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal  
Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time	Oper	Clinical signs / Comments
18 89F00374	F/ 4/3	11-Sep-89 11:11	7 / 11:32	9	disoriented, slight tremors, slight uncoordinated, slight apprehensive, moderate increased water consumption, severe normal/no significant signs
		11-Sep-89 11:18	7 / 16:21	9	increased water consumption, severe normal/no significant signs
		11-Sep-89 11:22	8 / 07:45	9	increased water consumption, moderate hunched posture, slight
		11-Sep-89 11:26	8 / 11:11	9	increased water consumption, moderate hunched posture, slight
		11-Sep-89 11:51	8 / 14:21	9	increased water consumption, severe hunched posture, slight
		11-Sep-89 12:04	9 / 08:11	9	increased water consumption, severe hunched posture, slight
		11-Sep-89 12:09	9 / 10:05	9	increased water consumption, moderate hunched posture, moderate depressed, slight tremors, slight
		11-Sep-89 12:15	9 / 14:09	9	normal/no significant signs
		11-Sep-89 12:25	10 / 07:27	9	hunched posture, slight hyperactive, slight
		11-Sep-89 12:29	10 / 10:28	9	hunched posture, slight hyperactive, slight
		11-Sep-89 12:36	10 / 14:46	9	disoriented, slight increased water consumption, severe
		11-Sep-89 12:48	11 / 07:27	9	hunched posture, slight disoriented, slight
		11-Sep-89 12:57	11 / 09:54	9	dilated pupils, moderate hunched posture, slight
		11-Sep-89 13:03	11 / 15:04	9	increased water consumption, moderate
		11-Sep-89 13:07	12 / 07:40	9	increased water consumption, severe disoriented, slight
		11-Sep-89 13:11	12 / 10:25	9	hyperactive, moderate disoriented, slight
		11-Sep-89 13:23	12 / 14:47	9	increased water consumption, severe
		11-Sep-89 13:28	13 / 07:46	9	dilated pupils, moderate normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
18	89F00374 F / 4/3	11-Sep-89 13:32	13 / 10:44	9	increased water consumption, moderate hunched posture, slight
		11-Sep-89 13:39	13 / 14:08	9	normal/no significant signs
		11-Sep-89 13:48	14 / 08:24	9	disoriented, slight tremors, slight
		11-Sep-89 13:57	14 / 09:50	9	inactive, moderate
		11-Sep-89 14:05	14 / 14:17	9	increased water consumption, moderate
					increased water consumption, moderate disoriented, slight
					apprehensive, slight
		11-Sep-89 14:11	15 / 07:32	9	apprehensive, slight hunched posture, moderate
					inactive, moderate
		12-Sep-89 07:55	1 / 08:41	9	normal/no significant signs
		12-Sep-89 08:05	1 / 11:30	9	disoriented, moderate
		12-Sep-89 08:15	1 / 14:22	9	disoriented, moderate
					increased respiratory depth, moderate tremors, moderate
		12-Sep-89 08:21	2 / 08:07	9	increased respiration, slight disoriented, slight
					tremors, moderate
					uncoordinated, slight
		12-Sep-89 08:28	2 / 11:51	9	increased water consumption, slight
		12-Sep-89 08:32	2 / 14:42	9	increased water consumption, moderate
		12-Sep-89 08:38	3 / 08:04	9	disoriented, slight tremors, moderate
					uncoordinated, slight
		12-Sep-89 08:52	3 / 12:05	9	disoriented, slight tremors, moderate
					increased respiratory depth, slight
		12-Sep-89 09:05	3 / 15:02	9	increased water consumption, severe
		12-Sep-89 09:20	4 / 09:05	9	normal/no significant signs
		12-Sep-89 09:23	4 / 10:45	9	increased respiratory depth, slight
					increased water consumption, moderate
		12-Sep-89 09:29	4 / 16:19	9	increased water consumption, slight

19 89F00387 F / 4/4



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
19 89F00387	F / 4/4	12-Sep-89 09:33	5 / 07:35	9 increased water consumption, moderate inactive, moderate
		12-Sep-89 09:44	5 / 11:51	9 increased water consumption, moderate inactive, slight uncoordinated, slight
		12-Sep-89 09:51	5 / 14:30	9 increased water consumption, moderate inactive, slight increased respiration, slight tremors, slight
		12-Sep-89 09:59	6 / 08:22	9 disoriented, moderate
		12-Sep-89 10:05	6 / 11:55	9 increased water consumption, severe
		12-Sep-89 10:14	6 / 16:32	9 normal/no significant signs
		12-Sep-89 10:22	7 / 07:54	9 disoriented, moderate uncoordinated, moderate
		12-Sep-89 10:33	7 / 11:31	9 strained nares, moderate increased water consumption, severe tremors, moderate
		12-Sep-89 10:54	7 / 14:33	9 uncoordinated, slight
		12-Sep-89 10:58	8 / 08:10	9 uncoordinated, slight disoriented, slight
		12-Sep-89 11:04	8 / 10:45	9 disoriented, slight
		12-Sep-89 11:10	8 / 14:13	9 disoriented, slight
		12-Sep-89 11:15	9 / 07:44	9 disoriented, slight tremors, moderate
		12-Sep-89 11:23	9 / 10:55	9 uncoordinated, slight hunched posture, moderate increased respiration, slight
		12-Sep-89 11:31	9 / 14:54	9 increased respiration, moderate increased water consumption, severe inactive, moderate
		12-Sep-89 11:36	10 / 07:35	9 uncoordinated, slight hunched posture, moderate disoriented, slight
		12-Sep-89 11:44	10 / 10:50	9 hunched posture, slight increased water consumption, moderate

# Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 86010F  
Data Listing by Animal  
Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
Page: 46

SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
19	89F00387 F/ 4/4	12-Sep-89 11:48	10 / 15:11	9 increased water consumption, severe inactive, moderate
		12-Sep-89 11:53	11 / 07:43	9 tremors, moderate hunched posture, slight
		12-Sep-89 11:57	11 / 11:25	9 tremors, moderate hunched posture, slight increased water consumption, moderate
		12-Sep-89 12:04	11 / 14:49	9 tremors, slight disoriented, slight
		12-Sep-89 12:10	12 / 07:51	9 tremors, slight disoriented, slight
		12-Sep-89 12:14	12 / 11:44	9 tremors, slight uncoordinated, slight
		12-Sep-89 12:24	12 / 14:10	9 uncoordinated, slight
		12-Sep-89 12:28	13 / 09:00	9 tremors, slight disoriented, slight
		12-Sep-89 12:34	13 / 10:11	9 increased respiration, moderate inactive, slight
		12-Sep-89 12:41	13 / 14:29	9 uncoordinated, slight disoriented, moderate
		12-Sep-89 12:50	14 / 07:43	9 uncoordinated, slight disoriented, slight
		12-Sep-89 12:55	14 / 09:44	9 disoriented, severe hunched posture, moderate
		12-Sep-89 13:03	14 / 14:03	9 hunched posture, moderate tremors, moderate
		12-Sep-89 13:08	15 / 07:23	9 lameness, moderate, right foreleg inactive, slight
		12-Sep-89 07:56	1 / 08:32	9 lameness, moderate, right foreleg normal/no significant signs
		12-Sep-89 08:05	1 / 11:15	9 aggressive, slight
		12-Sep-89 08:15	1 / 14:26	9 wide-legged stance, slight
		12-Sep-89 08:22	2 / 08:07	9 wide-legged stance, slight
		12-Sep-89 08:29	2 / 11:29	9 inactive, slight
20	89F00380 F/ 4/4			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Raw Data Listings of Clinical Signs Without Messes  
 Study Number: 88010f  
 Date Listing by Animal  
 Study Start Date: 30-May-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
28 89F00380	F / 4/4	12-Sep-89 08:33	2 / 14:38	9 Inactive, slight increased respiration, slight normal/no significant signs
		12-Sep-89 08:39	3 / 08:48	9 Increased respiration, slight disoriented, slight
		12-Sep-89 08:53	3 / 10:47	9 Increased respiration, slight disoriented, slight
		12-Sep-89 09:05	3 / 14:59	9 Inactive, slight increased respiration, slight normal/no significant signs
		12-Sep-89 09:20	4 / 08:58	9 Inactive, moderate
		12-Sep-89 09:24	4 / 10:30	9 Inactive, slight
		12-Sep-89 09:29	4 / 16:13	9 normal/no significant signs
		12-Sep-89 09:33	5 / 07:30	9 Inactive, moderate
		12-Sep-89 09:44	5 / 11:35	9 Increased respiration, slight increased water consumption, slight
		12-Sep-89 09:51	5 / 14:24	9 Inactive, moderate
		12-Sep-89 09:59	6 / 08:13	9 Increased respiration, slight
		12-Sep-89 10:06	6 / 11:45	9 Wide-legged stance, slight inactive, slight disoriented, slight
		12-Sep-89 10:14	6 / 16:26	9 Increased water consumption, slight increased respiration, moderate
		12-Sep-89 10:22	7 / 07:52	9 Increased water consumption, moderate
		12-Sep-89 10:33	7 / 11:18	9 normal/no significant signs
		12-Sep-89 10:54	7 / 14:27	9 Inactive, slight increased respiration, moderate
		12-Sep-89 10:58	8 / 08:14	9 Inactive, slight increased respiration, slight
		12-Sep-89 11:04	8 / 10:32	9 disoriented, slight hunched posture, moderate
		12-Sep-89 11:10	8 / 14:15	9 Inactive, slight
		12-Sep-89 11:15	9 / 07:34	9 Increased respiration, slight
		12-Sep-89 11:24	9 / 10:48	9 Increased respiration, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

PRINTED: 26-Oct-89  
Page: 48

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010F  
Data Listing by Animal  
Study Start Date: 30-May-89

SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper

# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

20	89F00380	F / 4/4	12-Sep-89	11:24	9 / 10:48	9	disoriented, moderate hunched posture, slight normal/no significant signs increased respiration, slight disoriented, slight increased respiratory depth, slight wide-legged stance, moderate normal/no significant signs normal/no significant signs normal/no significant signs inactive, slight hunched posture, moderate tremors, moderate normal/no significant signs increased respiration, slight normal/no significant signs inactive, slight hunched posture, moderate inactive, moderate hunched posture, moderate increased respiratory depth, moderate inactive, moderate hunched posture, moderate inactive, slight hunched posture, moderate increased respiration, moderate inactive, slight hunched posture, slight increased respiration, slight increased respiratory depth, slight inactive, slight hunched posture, slight increased respiration, slight inactive, slight increased respiration, slight normal/no significant signs
			12-Sep-89	11:31	9 / 14:50	9	
			12-Sep-89	11:36	10 / 07:39	9	
			12-Sep-89	11:44	10 / 10:20	9	
			12-Sep-89	11:48	10 / 15:08	9	
			12-Sep-89	11:53	11 / 07:48	9	
			12-Sep-89	11:58	11 / 11:07	9	
			12-Sep-89	12:04	11 / 14:53	9	
			12-Sep-89	12:10	12 / 07:54	9	
			12-Sep-89	12:14	12 / 11:06	9	
			12-Sep-89	12:24	12 / 14:13	9	
			12-Sep-89	12:28	13 / 08:33	9	
			12-Sep-89	12:36	13 / 10:01	9	
			12-Sep-89	12:41	13 / 14:23	9	
			12-Sep-89	12:50	14 / 07:45	9	
			12-Sep-89	12:55	14 / 09:26	9	
			12-Sep-89	13:03	14 / 14:07	9	
			12-Sep-89	13:08	15 / 07:29	9	
			08-Aug-89	14:22	1 / 10:45	9	

21 89F00341 F / 5/1

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010F  
Data Listing by Animal  
Study Start Date: 30-May-89

PRINTED: 24-Oct-89  
Page: 49

SUB-ACUTE/

Cage #	Animal Sex/group Number /Subgroup	Date and Time Data was Entered	Study Day/time Data was Taken	Oper #	Clinical signs / Comments	
21	89F00341	F / 5/1	08-Aug-89 14:41	1 / 11:45	9	disoriented, moderate inactive, moderate increased respiration, moderate increased respiratory depth, moderate
	08-Aug-89	14:51	1 / 16:15	9	inactive, slight increased respiration, moderate increased respiratory depth, moderate	
	08-Aug-89	14:59	2 / 08:30	9	increased respiration, moderate	
	08-Aug-89	15:07	2 / 09:44	9	increased respiration, slight increased water consumption, slight	
	08-Aug-89	15:18	2 / 14:04	9	increased respiration, slight increased water consumption, slight hunched posture, moderate	
	08-Aug-89	15:29	3 / 07:42	9	increased respiration, slight inactive, slight	
	08-Aug-89	15:40	3 / 10:02	9	increased water consumption, slight	
	10-Aug-89	08:36	3 / 15:18	9	increased water consumption, slight	
	10-Aug-89	09:38	4 / 07:54	9	increased respiratory depth, slight	
	10-Aug-89	09:51	4 / 10:47	9	increased respiratory depth, moderate disoriented, moderate increased respiration, slight hunched posture, slight	
	10-Aug-89	09:52	4 / 14:33	9	increased respiratory depth, slight disoriented, moderate hunched posture, slight	
	10-Aug-89	10:06	5 / 08:04	9	inactive, slight	
	10-Aug-89	10:10	5 / 11:18	9	inactive, slight disoriented, slight	
	10-Aug-89	10:15	5 / 16:56	9	inactive, slight	
	10-Aug-89	13:02	6 / 08:18	9	normal/no significant signs	
	10-Aug-89	13:06	6 / 10:42	9	increased respiration, slight increased water consumption, slight	
	10-Aug-89	13:10	6 / 15:49	9	increased water consumption, moderate	
	10-Aug-89	13:15	7 / 08:30	9	increased water consumption, moderate disoriented, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Rev Data Listings of Clinical Signs Without Names

Study Number: 88010F

Date Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
Page: 50

SUB-ACUTE/

Cage Animal Sex/Group Date and Time Study Day/Time Obs

# Number /Subgroup Date was Entered Data was Taken #

Clinical signs / Comments

21	89F00341	F/ 5/1	10-Aug-89	13:26	7 / 09:56	9	increased water consumption, slight disoriented, moderate inactivity, slight increased respiration, moderate increased respiratory depth, slight hunched posture, moderate chewing, moderate disoriented, severe increased respiration, slight disoriented, moderate uncoordinated, slight wide-legged stance, slight hyperactive, slight disoriented, moderate increased respiration, moderate hunched posture, slight disoriented, moderate increased respiration, moderate hunched posture, slight aprehensive, slight disoriented, moderate increased respiration, moderate hunched posture, slight disoriented, moderate dark material in nare, moderate disoriented, slight dark material in nare, moderate uncoordinated, slight tremors, moderate dark material in nare, moderate increased water consumption, slight dark material in nare, moderate increased water consumption, moderate hunched posture, slight disoriented, moderate
			10-Aug-89	13:43	7 / 14:38	9	
			10-Aug-89	14:09	8 / 08:13	9	
			10-Aug-89	14:14	8 / 09:46	9	
			10-Aug-89	14:21	8 / 11:02	9	
			10-Aug-89	14:27	9 / 07:34	9	
			10-Aug-89	14:35	9 / 09:53	9	
			10-Aug-89	14:47	9 / 14:36	9	
			10-Aug-89	15:02	10 / 07:15	9	
			10-Aug-89	15:08	10 / 09:55	9	
			10-Aug-89	15:13	10 / 14:09	9	
			10-Aug-89	15:18	11 / 07:48	9	
			10-Aug-89	15:23	11 / 09:46	9	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
Page: 51

SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

21	89F00341	F / 5/1	10-Aug-89	15:23	11 / 09:46	9	increased respiration, slight tremors, slight
			10-Aug-89	15:23	11 / 14:13	9	increased water consumption, slight
			14-Aug-89	09:15	12 / 08:00	9	increased water consumption, severe disoriented, slight
			14-Aug-89	09:19	12 / 09:20	9	increased water consumption, slight
			14-Aug-89	09:26	12 / 15:38	9	increased respiration, slight
			14-Aug-89	09:29	13 / 06:16	9	increased water consumption, slight
			14-Aug-89	09:35	13 / 09:44	9	normal/no significant signs
						9	increased respiration, moderate
			14-Aug-89	09:40	13 / 13:46	9	hunched posture, slight
			14-Aug-89	09:45	14 / 08:04	9	increased water consumption, slight
						9	disoriented, slight
			14-Aug-89	09:57	14 / 10:55	9	pulled catheter
						9	hunched posture, slight
			14-Aug-89	10:03	14 / 16:02	9	increased respiration, slight
			14-Aug-89	10:08	15 / 07:34	9	increased water consumption, moderate
			08-Aug-89	14:23	1 / 10:49	9	normal/no significant signs
			08-Aug-89	14:41	1 / 12:16	9	normal/no significant signs
						9	hunched posture, moderate
			08-Aug-89	14:53	1 / 16:22	9	inactive, moderate
						9	hunched posture, slight
						9	inactive, moderate
			08-Aug-89	14:59	2 / 08:37	9	increased water consumption, moderate
			08-Aug-89	15:07	2 / 09:54	9	normal/no significant signs
			08-Aug-89	15:18	2 / 14:10	9	increased water consumption, moderate
			08-Aug-89	15:29	3 / 07:58	9	inactive, slight
			08-Aug-89	15:40	3 / 10:11	9	inactive, moderate
						9	hunched posture, slight
			10-Aug-89	08:37	3 / 15:23	9	increased water consumption, slight
						9	increased water consumption, moderate
			10-Aug	9 09:39	4 / 08:09	9	inactive, slight
						9	hunched posture, slight

22 89F00347 F / 5/1





## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89				PRINTED: 26-Oct-89 Page: 53		SUB-ACUTE/	
Cage #	Animal Sex/group Date and Time	Subgroup Date Entered	Study Day/time Oper	Clinical signs / Comments							
22 89F00347 F/ 5/1	14-Aug-89 09:26		12 / 15:42	9	increased water consumption, moderate						
	14-Aug-89 09:29		13 / 06:22	9	apprehensive, slight						
	14-Aug-89 09:35		13 / 10:10	9	increased respiration, slight						
	14-Aug-89 09:40		13 / 13:54	9	normal/no significant signs						
	14-Aug-89 09:45		14 / 08:10	9	apprehensive, slight						
	14-Aug-89 09:58		14 / 10:31	9	disoriented, moderate tremors, slight uncoordinated, slight						
23 89F00360 F/ 5/2	14-Aug-89 10:03		14 / 16:06	9	increased water consumption, slight						
	14-Aug-89 10:08		15 / 08:19	9	increased water consumption, severe hunched posture, slight						
	14-Aug-89 10:18		1 / 09:40	9	increased respiration, slight						
	14-Aug-89 10:44		1 / 10:54	9	normal/no significant signs						
					inactive, slight disoriented, moderate						
					dilated pupils, moderate						
	14-Aug-89 10:50		1 / 14:14	9	increased respiration, slight						
					disoriented, moderate						
					dilated pupils, slight						
					increased respiration, slight						
					increased water consumption, moderate						
					normal/no significant signs						
23-Aug-89 14:26	23-Aug-89 14:33		2 / 08:12	9	inactive, slight						
			2 / 10:34	9	disoriented, moderate						
					uncoordinated, slight						
					inactive, slight						
					normal/no significant signs						
					inactive, moderate						
23-Aug-89 14:41	23-Aug-89 14:46		3 / 11:32	9	disoriented, moderate						
					inactive, slight						
					increased water consumption, severe						
					inactive, slight						
					hunched posture, slight						
					increased water consumption, severe						
23-Aug-89 15:06	23-Aug-89 15:10		4 / 12:53	9	increased water consumption, severe						
			4 / 17:10	9	increased water consumption, severe						
			5 / 08:30	9	normal/no significant signs						

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89		PRINTED: 26-Oct-89 Page: 54 SUB-ACUTE/	
Cage #	Animal Sex/Group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments		
23 89F00360	F / 5/2	23-Aug-89	15:13	5 / 11:38	9	inactive, slight increased water consumption, moderate	
		23-Aug-89	15:22	5 / 15:57	9	inactive, moderate increased water consumption, moderate	
		02-Oct-89	09:21	6 / 08:50	4	increased water consumption, slight dilated pupils, slight	
		02-Oct-89	09:30	6 / 10:46	4	disoriented, slight uncoordinated, slight	
		02-Oct-89	09:44	6 / 14:55	4	hyperactive, slight inactive, moderate	
		07-Sep-89	13:07	7 / 08:33	9	hunched posture, moderate dilated pupils, moderate	
		07-Sep-89	13:20	7 / 10:25	9	dilated pupils, moderate hyperactive, slight	
		07-Sep-89	13:30	7 / 14:15	9	apprehensive, moderate dilated pupils, moderate	
		07-Sep-89	13:37	8 / 07:54	9	disoriented, moderate uncoordinated, slight	
		07-Sep-89	13:44	8 / 10:30	9	hunched posture, moderate dilated pupils, slight	
		07-Sep-89	13:52	8 / 14:51	9	disoriented, slight dilated pupils, moderate	
		07-Sep-89	14:17	9 / 07:49	9	disoriented, moderate dilated pupils, moderate	
		07-Sep-89	14:23	9 / 10:37	9	hunched posture, moderate disoriented, slight	
		07-Sep-89	14:27	9 / 14:24	9	increased water consumption, slight increased water consumption, moderate	
		07-Sep-89	14:36	10 / 07:13	9	disoriented, slight tremors, slight	
						uncoordinated, slight	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments		
23	89F00360	F / 5/2	07-Sep-89	14:43	10 / 10:55	9	Increased water consumption, moderate
			07-Sep-89	14:49	10 / 14:42	9	Increased water consumption, severe
			07-Sep-89	14:55	11 / 08:17	9	normal/no significant signs
			07-Sep-89	15:02	11 / 09:59	9	normal/no significant signs
			07-Sep-89	15:08	11 / 15:57	9	Increased water consumption, moderate
			07-Sep-89	15:20	12 / 06:33	9	normal/no significant signs
			07-Sep-89	15:24	12 / 10:50	9	Increased water consumption, moderate
			07-Sep-89	15:30	12 / 14:03	9	Increased water consumption, moderate
			07-Sep-89	15:35	13 / 08:19	9	hunched posture, slight
			07-Sep-89	15:40	13 / 11:05	9	disoriented, slight
			07-Sep-89	15:47	13 / 16:13	9	Increased water consumption, slight
			07-Sep-89	15:52	14 / 08:43	9	normal/no significant signs
			07-Sep-89	15:57	14 / 10:25	9	wide-legged stance, moderate
			07-Sep-89	16:03	14 / 14:11	9	disoriented, moderate
24	89F00375	F / 5/3	07-Sep-89	16:07	14 / 14:11	9	hunched posture, moderate
			07-Sep-89	16:07	15 / 08:26	9	hunched posture, slight
			11-Sep-89	08:08	1 / 08:50	9	Increased respiration, slight
			11-Sep-89	08:32	1 / 10:45	9	hyperactive, severe
			11-Sep-89	09:09	1 / 14:11	9	Increased respiration, moderate
			11-Sep-89	09:16	2 / 08:25	9	hunched posture, slight
			11-Sep-89	09:25	2 / 11:01	9	normal/no significant signs
			11-Sep-89	09:36	2 / 14:18	9	hyperactive, severe
			11-Sep-89	09:36	2 / 14:18	9	aggressive, moderate
			11-Sep-89	09:36	2 / 14:18	9	hyperactive, moderate
			11-Sep-89	09:36	2 / 14:18	9	aggressive, severe
			11-Sep-89	09:36	2 / 14:18	9	Increased respiration, slight
			11-Sep-89	09:36	2 / 14:18	9	hunched posture, moderate
			11-Sep-89	09:36	2 / 14:18	9	Increased respiratory depth, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010F  
 Data Listing by Animal  
 Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
 Page: 56  
 SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time	Oper Data was Taken	#	Clinical signs / Comments	
24	89F00375	F / 5/3	11-Sep-89	09:36	2 / 14:18	9	Increased respiration, slight hunched posture, slight hyperactive, moderate aggressive, severe
			11-Sep-89	09:43	3 / 08:14	9	hyperactive, moderate aggressive, moderate
			11-Sep-89	09:51	3 / 11:21	9	hyperactive, moderate aggressive, moderate increased water consumption, moderate
			11-Sep-89	09:55	3 / 14:35	9	hyperactive, moderate aggressive, moderate increased water consumption, severe
			11-Sep-89	10:01	4 / 08:37	9	hyperactive, moderate aggressive, moderate hunched posture, slight
			11-Sep-89	10:14	4 / 11:32	9	hyperactive, moderate aggressive, moderate increased water consumption, severe
			11-Sep-89	10:20	4 / 14:54	9	aggressive, severe
			11-Sep-89	10:24	5 / 08:42	9	Increased water consumption, moderate aggressive, severe
			11-Sep-89	10:33	5 / 10:20	9	Increased water consumption, slight aggressive, slight
			11-Sep-89	10:38	5 / 16:08	9	normal/no significant signs
			11-Sep-89	10:44	6 / 07:26	9	hyperactive, moderate aggressive, moderate
			11-Sep-89	10:48	6 / 11:20	9	Increased respiratory depth, slight increased water consumption, slight hyperactive, moderate
			11-Sep-89	10:57	6 / 14:19	9	aggressive, severe
			11-Sep-89	11:05	7 / 08:06	9	Increased respiratory depth, slight hyperactive, moderate aggressive, moderate
			11-Sep-89	11:11	7 / 11:35	9	Increased respiratory depth, slight startles, moderate disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/MS ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89		PRINTED: 26-Oct-89 Page: 57		SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments				
24	89F00375	F / 5/3							
		11-Sep-89 11:18	7 / 16:22	9	Increased water consumption, severe				
		11-Sep-89 11:22	8 / 07:46	9	Increased water consumption, severe				
					Increased respiration, slight				
		11-Sep-89 11:27	8 / 11:10	9	Increased respiration, moderate				
					hunched posture, moderate				
					inactive, slight				
		11-Sep-89 11:52	8 / 14:22	9	hunched posture, moderate				
					Increased water consumption, moderate				
		11-Sep-89 12:04	9 / 08:12	9	Increased water consumption, moderate				
		11-Sep-89 12:10	9 / 10:10	9	Increased water consumption, moderate				
					aggressive, moderate				
					disoriented, slight				
		11-Sep-89 12:15	9 / 14:10	9	uncoordinated, slight				
		11-Sep-89 12:25	10 / 07:28	9	normal/no significant signs				
					Increased respiration, slight				
					hunched posture, slight				
		11-Sep-89 12:29	10 / 10:34	9	aggressive, moderate				
					Increased respiration, slight				
					hunched posture, slight				
					Increased water consumption, moderate				
		11-Sep-89 12:37	10 / 14:46	9	Increased water consumption, severe				
		11-Sep-89 12:48	11 / 07:28	9	inactive, slight				
		11-Sep-89 12:57	11 / 10:02	9	Increased water consumption, severe				
		11-Sep-89 13:03	11 / 15:04	9	Increased water consumption, severe				
		11-Sep-89 13:07	12 / 07:41	9	Increased respiration, moderate				
					inactive, moderate				
		11-Sep-89 13:12	12 / 10:25	9	inactive, slight				
					hunched posture, moderate				
					aggressive, moderate				
					disoriented, slight				
		11-Sep-89 13:23	12 / 14:47	9	uncoordinated, slight				
					inactive, slight				
					disoriented, slight				
		11-Sep-89 13:28	13 / 07:47	9	uncoordinated, slight				
					normal/no significant signs				

# Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal  
Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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SUB-ACUTE/

Cage #	Animal Sex/group Number /Subgroup	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
24	89F00375 F/ 5/3	11-Sep-89 13:32	13 / 10:51	9	disoriented, slight
		11-Sep-89 13:39	13 / 14:09	9	uncoordinated, slight
		11-Sep-89 13:48	14 / 08:25	9	uncoordinated, slight
		11-Sep-89 13:57	14 / 09:50	9	increased respiration, slight
		11-Sep-89 14:05	14 / 14:18	9	inactive, moderate
		11-Sep-89 14:11	15 / 07:33	9	increased water consumption, moderate
					inactive, moderate
					increased respiration, slight
					hunched posture, slight
25	89F00394 F/ 5/4	12-Sep-89 07:56	1 / 08:41	9	normal/no significant signs
		12-Sep-89 08:05	1 / 11:35	9	disoriented, moderate
		12-Sep-89 08:16	1 / 14:32	9	increased respiration, slight
		12-Sep-89 08:23	2 / 07:59	9	loose stool, slight
		12-Sep-89 08:29	2 / 11:50	9	apprehensive, moderate
		12-Sep-89 08:33	2 / 14:43	9	apprehensive, slight
		12-Sep-89 08:40	3 / 08:40	9	increased water consumption, severe
					disoriented, slight
					apprehensive, slight
					tremors, moderate
		12-Sep-89 08:54	3 / 11:59	9	uncoordinated, slight
					disoriented, moderate
					tremors, slight
					increased respiration, moderate
					hunched posture, moderate
		12-Sep-89 09:06	3 / 15:04	9	tremors, moderate
		12-Sep-89 09:20	4 / 09:04	9	increased respiration, slight
		12-Sep-89 09:24	4 / 10:48	9	disoriented, slight
					apprehensive, slight
					increased water consumption, moderate
					inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
25	89F00394 F/ 5/4	12-Sep-89 09:29	4 / 16:18	9 increased water consumption, slight inactive, moderate
		12-Sep-89 09:33	5 / 07:34	9 hunched posture, slight increased respiration, slight increased water consumption, moderate tremors, slight uncoordinated, slight inactive, slight
		12-Sep-89 09:46	5 / 11:48	9 hunched posture, moderate
		12-Sep-89 09:52	5 / 14:29	9 increased water consumption, slight hunched posture, moderate
		12-Sep-89 10:00	6 / 08:21	9 hunched posture, slight disoriented, slight tremors, slight
		12-Sep-89 10:06	6 / 11:54	9 disoriented, slight tremors, slight
		12-Sep-89 10:14	6 / 16:32	9 increased water consumption, severe uncoordinated, slight disoriented, slight
		12-Sep-89 10:24	7 / 08:03	9 uncoordinated, moderate increased respiration, moderate tremors, moderate
		12-Sep-89 10:34	7 / 11:35	9 disoriented, moderate increased respiration, moderate tremors, moderate
		12-Sep-89 10:55	7 / 14:32	9 increased water consumption, moderate inactive, moderate
		12-Sep-89 10:59	8 / 08:18	9 increased water consumption, severe tremors, moderate disoriented, slight
		12-Sep-89 11:05	8 / 10:48	9 uncoordinated, slight tremors, slight disoriented, slight
		12-Sep-89 11:10	8 / 14:19	9 uncoordinated, moderate uncoordinated, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F  
Data Listing by Animal  
Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments
25	89F00394 F / 5/4	12-Sep-89	11:15	9 / 07:43	9 tremors, slight disoriented, slight increased respiration, moderate increased respiratory depth, moderate tremors, moderate disoriented, slight increased water consumption, moderate increased water consumption, severe disoriented, slight increased water consumption, severe inactive, slight increased water consumption, severe normal/no significant signs increased water consumption, moderate tremors, slight disoriented, slight uncoordinated, slight normal/no significant signs normal/no significant signs inactive, slight apprehensive, moderate normal/no significant signs hunched posture, slight increased water consumption, moderate inactive, slight bruise, severe, left ear increased water consumption, moderate bruise, severe, left ear hunched posture, slight startles, moderate hyperactive, moderate hyperactive, slight hunched posture, moderate increased respiration, slight hyperactive, slight
		12-Sep-89	11:25	9 / 11:07	9
		12-Sep-89	11:32	9 / 14:53	9
		12-Sep-89	11:37	10 / 07:46	9
		12-Sep-89	11:45	10 / 10:18	9
		12-Sep-89	11:48	10 / 15:12	9
		12-Sep-89	11:53	11 / 07:56	9
		12-Sep-89	11:58	11 / 11:42	9
		12-Sep-89	12:04	11 / 14:57	9
		12-Sep-89	12:10	12 / 07:59	9
		12-Sep-89	12:14	12 / 09:53	9
		12-Sep-89	12:24	12 / 14:16	9
		12-Sep-89	12:29	13 / 09:00	9
		12-Sep-89	12:37	13 / 10:20	9
		12-Sep-89	12:42	13 / 14:28	9
		12-Sep-89	12:51	14 / 07:49	9
		12-Sep-89	12:56	14 / 10:41	9
		12-Sep-89	13:03	14 / 14:11	9



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Page: 61

SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
25	89F00394	F / 5/4	12-Sep-89 13:03	14 / 14:11	9 hunched posture, slight
			12-Sep-89 13:08	15 / 07:33	9 normal/no significant signs
26	89F00343	F / 6/1	08-Aug-89 14:23	1 / 10:45	9 normal/no significant signs
			08-Aug-89 14:42	1 / 11:50	9 hunched posture, moderate apprehensive, moderate tremors, slight
					9 inactive, slight
			08-Aug-89 14:53	1 / 16:17	9 hunched posture, moderate
			08-Aug-89 14:59	2 / 08:30	9 normal/no significant signs
			08-Aug-89 15:07	2 / 09:46	9 hunched posture, slight
					9 increased water consumption, moderate
			08-Aug-89 15:19	2 / 14:05	9 apprehensive, slight
					9 inactive, slight
					9 startles, slight
					9 disoriented, slight
			08-Aug-89 15:30	3 / 07:43	9 apprehensive, slight
					9 tremors, slight
			08-Aug-89 15:41	3 / 10:08	9 increased water consumption, moderate
			10-Aug-89 08:37	3 / 15:19	9 increased water consumption, severe
			10-Aug-89 09:43	4 / 08:00	9 dark material in nare, slight
			10-Aug-89 09:52	4 / 10:47	9 hunched posture, moderate
					9 inactive, slight
					9 aggressive, slight
			10-Aug-89 10:00	4 / 14:34	9 dark material in nare, moderate
					9 apprehensive, slight
					9 disoriented, slight
					9 aggressive, slight
					9 dark material in nare, moderate
			10-Aug-89 10:07	5 / 08:04	9 normal/no significant signs
			10-Aug-89 10:11	5 / 11:22	9 increased water consumption, moderate
			10-Aug-89 10:15	5 / 16:56	9 increased water consumption, moderate
			10-Aug-89 13:03	6 / 08:18	9 normal/no significant signs
			10-Aug-89 13:07	6 / 10:45	9 inactive, slight
					9 increased water consumption, moderate
			10-Aug-89 13:11	6 / 15:52	9 increased water consumption, severe

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
26	89F00343	F / 6/1		
		10-Aug-89 13:16	7 / 08:31	9 Inactive, slight
		10-Aug-89 13:27	7 / 10:02	9 hunched posture, slight increased water consumption, slight disoriented, slight
		10-Aug-89 14:02	7 / 14:39	9 dark material in nares, moderate disoriented, moderate
		10-Aug-89 14:10	8 / 08:15	9 dark material in nares, moderate disoriented, moderate
		10-Aug-89 14:15	8 / 09:51	9 dark material in nares, moderate disoriented, moderate
		10-Aug-89 14:22	8 / 14:02	9 dark material in nares, moderate
		10-Aug-89 14:28	9 / 07:36	9 dark material in nares, moderate disoriented, slight
		10-Aug-89 14:36	9 / 09:55	9 dark material in nares, moderate disoriented, moderate
		10-Aug-89 14:48	9 / 14:37	9 hunched posture, moderate
		10-Aug-89 15:02	10 / 07:16	9 dark material in nares, moderate aggressive, slight
		10-Aug-89 15:08	10 / 09:57	9 aggressive, slight disoriented, slight
		10-Aug-89 15:13	10 / 14:09	9 dark material in nares, moderate increased water consumption, slight
		10-Aug-89 15:18	11 / 07:49	9 dark material in nares, moderate increased water consumption, severe
		10-Aug-89 15:24	11 / 09:55	9 dark material in nares, moderate wide-legged stance, moderate
		10-Aug-89 15:29	11 / 14:14	9 disoriented, slight increased water consumption, moderate
		14-Aug-89 09:15	12 / 08:01	9 wide-legged stance, moderate increased water consumption, severe
		14-Aug-89 09:21	12 / 09:22	9 normal/no significant signs increased water consumption, moderate
		14-Aug-89 09:26	12 / 15:39	9 dark green pigment in nares, severe increased water consumption, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal  
Study Start Date: 30-May-89PRINTED: 26-Oct-89  
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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
26	89F00343 F/ 6/1	14-Aug-89 09:26	12 / 15:39	9	dark green pigment in nares, moderate
		14-Aug-89 09:30	13 / 06:16	9	dark material in nare, slight
		14-Aug-89 09:35	13 / 09:54	9	dark green pigment in nares, slight
		14-Aug-89 09:41	13 / 13:46	9	dark green pigment in nares, slight
		14-Aug-89 09:46	14 / 08:05	9	increased water consumption, moderate
		14-Aug-89 09:59	14 / 10:20	9	dark material in nare, slight
		14-Aug-89 10:04	14 / 16:03	9	disoriented, slight
		14-Aug-89 10:08	15 / 07:30	9	increased water consumption, severe
		14-Aug-89 10:18	1 / 09:35	9	dark green pigment in nares, moderate
		14-Aug-89 10:45	1 / 10:40	9	inactive, slight
27	89F00357 F/ 6/2	14-Aug-89 10:50	1 / 14:11	9	normal/no significant signs
		23-Aug-89 14:27	2 / 08:10	9	disoriented, moderate
		23-Aug-89 14:33	2 / 10:34	9	disoriented, slight
		23-Aug-89 14:42	2 / 15:29	9	increased water consumption, slight
		23-Aug-89 14:46	3 / 08:20	9	tremors, moderate
		23-Aug-89 14:51	3 / 11:25	9	increased water consumption, severe
		23-Aug-89 14:59	3 / 15:08	9	aggressive, slight
		23-Aug-89 15:03	4 / 08:14	9	normal/no significant signs
		23-Aug-89 15:07	4 / 12:39	9	disoriented, moderate
		23-Aug-89 15:10	4 / 17:09	9	aggressive, moderate
		23-Aug-89 15:15	5 / 08:29	9	increased water consumption, moderate
		23-Aug-89 15:18	5 / 11:27	9	normal/no significant signs
				9	dilated pupils, slight
				9	normal/no significant signs
				9	normal/no significant signs
				9	increased water consumption, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Page: 64

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Taken	Study Day/Time Oper	Clinical signs / Comments
27	89F00357 F/ 6/2	23-Aug-89 15:23	5 / 15:56	9	Increased water consumption, moderate
		02-Oct-89 09:21	6 / 07:46	4	disoriented, slight
		02-Oct-89 09:31	6 / 10:35	4	inactive, slight
					disoriented, slight
					tremors, moderate
		02-Oct-89 09:44	6 / 14:52	4	Increased water consumption, slight
					dilated pupils, moderate
					disoriented, slight
					aggressive, moderate
		07-Sep-89 13:07	7 / 08:29	9	dilated pupils, slight
		07-Sep-89 13:21	7 / 10:19	9	aggressive, slight
					aggressive, slight
					disoriented, slight
					hunched posture, slight
		07-Sep-89 13:31	7 / 14:12	9	Increased respiratory depth, slight
		07-Sep-89 13:38	8 / 07:51	9	aggressive, slight
					aggressive, slight
		07-Sep-89 13:45	8 / 10:23	9	disoriented, slight
					aggressive, moderate
					disoriented, moderate
		07-Sep-89 13:52	8 / 14:49	9	aggressive, slight
		07-Sep-89 14:18	9 / 07:46	9	disoriented, slight
		07-Sep-89 14:23	9 / 10:29	9	Increased water consumption, moderate
		07-Sep-89 14:27	9 / 14:23	9	Increased water consumption, severe
		07-Sep-89 14:36	10 / 08:09	9	tremors, slight
		07-Sep-89 14:44	10 / 10:50	9	Increased water consumption, moderate
		07-Sep-89 14:50	10 / 14:39	9	Increased water consumption, severe
		07-Sep-89 14:56	11 / 08:15	9	normal/no significant signs
		07-Sep-89 15:02	11 / 09:52	9	Increased water consumption, slight
		07-Sep-89 15:08	11 / 15:49	9	Increased water consumption, severe
		07-Sep-89 15:20	12 / 06:30	9	normal/no significant signs
		07-Sep-89 15:24	12 / 10:42	9	Increased water consumption, severe
		07-Sep-89 15:31	12 / 14:01	9	Increased water consumption, moderate
		07-Sep-89 15:35	13 / 08:17	9	normal/no significant signs
		07-Sep-89 15:41	13 / 11:06	9	disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
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Raw Data Listings of Clinical Signs Without Masses  
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 SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments	
27	89F00357	F / 6/2	07-Sep-89	15:41	13 / 11:04	9 tremors, moderate hunched posture, moderate inactive, moderate increased water consumption, severe normal/no significant signs increased respiratory depth, slight hunched posture, slight aggressive, slight increased water consumption, moderate normal/no significant signs normal/no significant signs disoriented, slight wide-legged stance, slight uncoordinated, slight increased water consumption, moderate increased respiration, slight disoriented, slight disoriented, moderate wide-legged stance, slight uncoordinated, slight increased water consumption, slight increased water consumption, severe disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			07-Sep-89	15:47	13 / 16:11	9 increased water consumption, severe
			07-Sep-89	15:52	14 / 08:37	9 normal/no significant signs
			07-Sep-89	15:58	14 / 10:20	9 increased respiratory depth, slight hunched posture, slight aggressive, slight increased water consumption, moderate normal/no significant signs normal/no significant signs disoriented, slight wide-legged stance, slight uncoordinated, slight increased water consumption, moderate increased respiration, slight disoriented, slight disoriented, moderate wide-legged stance, slight uncoordinated, slight increased water consumption, slight increased water consumption, severe disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			07-Sep-89	16:04	14 / 14:09	9 increased water consumption, moderate
			07-Sep-89	16:07	15 / 08:05	9 normal/no significant signs
			14-Aug-89	10:18	1 / 09:40	9 normal/no significant signs
			14-Aug-89	10:45	1 / 11:11	9 disoriented, slight wide-legged stance, slight uncoordinated, slight increased water consumption, moderate increased respiration, slight disoriented, slight disoriented, moderate wide-legged stance, slight uncoordinated, slight increased water consumption, slight increased water consumption, severe disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			14-Aug-89	10:52	1 / 14:15	9 increased water consumption, moderate increased respiration, slight disoriented, slight disoriented, moderate wide-legged stance, slight uncoordinated, slight increased water consumption, slight increased water consumption, severe disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	14:27	2 / 08:13	9 disoriented, slight disoriented, moderate wide-legged stance, slight uncoordinated, slight increased water consumption, slight increased water consumption, severe disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	14:34	2 / 10:45	9 disoriented, slight disoriented, moderate wide-legged stance, slight uncoordinated, slight increased water consumption, slight increased water consumption, severe disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	14:43	2 / 15:33	9 increased water consumption, slight increased water consumption, severe disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	14:46	3 / 08:23	9 normal/no significant signs
			23-Aug-89	14:52	3 / 11:31	9 disoriented, slight inactive, slight urinating blood, severe hunched posture, moderate increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	15:00	3 / 15:12	9 increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	15:03	4 / 08:16	9 increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	15:07	4 / 13:02	9 increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	15:11	4 / 17:10	9 increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	15:15	5 / 08:31	9 increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	15:19	5 / 11:38	9 increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			23-Aug-89	15:23	5 / 15:58	9 increased water consumption, moderate normal/no significant signs increased water consumption, severe normal/no significant signs normal/no significant signs increased water consumption, moderate
			02-Oct-89	09:22	6 / 02:53	4 normal/no significant signs

# Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F  
Data Listing by Animal  
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SUB-ACUTE/

Sage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
28 89F00362	F / 6/2	02-Oct-89 09:32	09:45	6 / 11:00	hunched posture, moderate
		02-Oct-89 09:45		6 / 14:56	disoriented, moderate hunched posture, slight increased water consumption, slight
		07-Sep-89 13:08		7 / 08:37	9 increased water consumption, slight inactive, slight
		07-Sep-89 13:21		7 / 10:27	9 disoriented, moderate hunched posture, moderate tremors, slight
		07-Sep-89 13:31		7 / 14:13	9 inactive, slight
		07-Sep-89 13:38		8 / 07:56	9 hyperactive, slight
		07-Sep-89 13:45		8 / 10:31	9 hyperactive, slight disoriented, moderate
		07-Sep-89 13:53		8 / 14:52	9 hyperactive, moderate disoriented, moderate
		07-Sep-89 14:00		9 / 07:50	9 hunched posture, slight disoriented, slight
		07-Sep-89 14:13		9 / 14:25	9 hunched posture, slight increased water consumption, moderate
		07-Sep-89 14:28		9 / 14:25	9 increased water consumption, severe
		07-Sep-89 14:37		10 / 08:15	9 hyperactive, slight disoriented, slight hunched posture, slight
		07-Sep-89 14:44		10 / 11:00	9 wide-legged stance, slight increased water consumption, slight
		07-Sep-89 14:50		10 / 14:42	9 increased water consumption, moderate
		07-Sep-89 14:56		11 / 08:20	9 normal/no significant signs
		07-Sep-89 15:03		11 / 10:01	9 increased water consumption, slight
		07-Sep-89 15:09		11 / 15:53	9 increased water consumption, moderate
		07-Sep-89 15:20		12 / 06:35	9 normal/no significant signs
		07-Sep-89 15:25		12 / 10:59	9 increased water consumption, slight
		07-Sep-89 15:31		12 / 02:00	9 increased water consumption, moderate
		07-Sep-89 15:36		13 / 08:20	9 normal/no significant signs
		07-Sep-89 15:41		13 / 11:13	9 disoriented, slight
		07-Sep-89 15:48		13 / 16:13	9 increased water consumption, severe
		07-Sep-89 15:52		14 / 08:44	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Date Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
28	89F00362	F/ 6/2	07-Sep-89 15:58	14 / 10:28 9 hunched posture, slight disoriented, slight tremors, moderate
		07-Sep-89 16:04	14 / 14:12 9 wide-legged stance, moderate increased water consumption, severe	
		07-Sep-89 16:08	15 / 08:36 9 increased water consumption, moderate	
29	89F00363	F/ 6/3	11-Sep-89 08:09	1 / 08:40 9 hunched posture, slight apprehensive, slight
		11-Sep-89 08:21	1 / 10:30 9 aggressive, slight hunched posture, slight disoriented, slight	
		11-Sep-89 09:09	1 / 14:01 9 aggressive, slight	
		11-Sep-89 09:17	2 / 08:11 9 hunched posture, slight	
				apprehensive, slight increased respiration, moderate
				dead
30	89F00379	F/ 6/4	11-Sep-89 09:27	2 / 09:45 9 normal/no significant signs
		12-Sep-89 07:57	1 / 08:30 9 hunched posture, moderate	
		12-Sep-89 08:06	1 / 11:10 9 rasping, moderate	
		12-Sep-89 08:16	1 / 14:25 9 aggressive, moderate	
		12-Sep-89 08:23	2 / 08:02 9 increased respiration, moderate	
		12-Sep-89 08:29	2 / 11:30 9 aggressive, moderate	
				dilated pupils, moderate
				aggressive, moderate
				dilated pupils, moderate
				increased water consumption, moderate
		12-Sep-89 08:33	2 / 14:38 9 increased water consumption, severe	
		12-Sep-89 08:41	3 / 08:46 9 aggressive, moderate	
		12-Sep-89 08:55	3 / 11:43 9 aggressive, moderate	
				dilated pupils, moderate
				hunched posture, slight
				increased respiration, slight
		12-Sep-89 09:07	3 / 14:58 9 increased respiration, moderate	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Date Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Entered	Study Day/Time Oper Data Was Taken	#	Clinical signs / Comments
30	89F00379	F / 6/4	12-Sep-89 09:07	3 / 14:58	9	increased water consumption, moderate aggressive, severe
			12-Sep-89 09:20	4 / 08:50	9	aggressive, severe
			12-Sep-89 09:24	4 / 10:26	9	increased water consumption, moderate
			12-Sep-89 09:30	4 / 16:12	9	increased water consumption, slight dilated pupils, slight
			12-Sep-89 09:34	5 / 07:29	9	increased water consumption, moderate aggressive, moderate
			12-Sep-89 09:47	5 / 11:30	9	increased water consumption, moderate aggressive, severe tremors, slight
			12-Sep-89 09:52	5 / 14:24	9	increased respiration, slight
			12-Sep-89 10:00	6 / 08:11	9	increased respiration, slight dilated pupils, slight tremors, moderate
			12-Sep-89 10:06	6 / 11:40	9	increased respiration, slight dilated pupils, moderate
			12-Sep-89 10:15	6 / 16:27	9	dilated pupils, slight
			12-Sep-89 10:25	7 / 07:51	9	dilated pupils, moderate aggressive, moderate
			12-Sep-89 10:35	7 / 11:17	9	aggressive, moderate increased respiration, slight loose stool, moderate
			12-Sep-89 10:55	7 / 14:26	9	normal/no significant signs
			12-Sep-89 10:59	8 / 08:21	9	normal/no significant signs
			12-Sep-89 11:05	8 / 10:28	9	dilated pupils, moderate tremors, moderate disoriented, slight uncoordinated, moderate
						hunched posture, moderate
			12-Sep-89 11:11	8 / 14:15	9	increased water consumption, moderate dilated pupils, moderate tremors, slight
			12-Sep-89 11:16	9 / 07:32	9	increased respiration, moderate hunched posture, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEV ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

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Page: 69

Study Number: 88010F

Date Listing by Animal

Study Start Date: 30-May-89

SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper  
# Number /Subgroup Data was Entered Date was Taken #

Clinical signs / Comments

30	89F00379	F / 6/4	12-Sep-89	11:16	9 / 07:32	9	loose stool, moderate aggressive, moderate
			12-Sep-89	11:26	9 / 11:00	9	hunched posture, moderate aggressive, severe dilated pupils, moderate tremors, moderate disoriented, slight
			12-Sep-89	11:32	9 / 14:49	9	hunched posture, moderate dilated pupils, moderate increased water consumption, moderate
			12-Sep-89	11:37	10 / 07:37	9	dilated pupils, moderate increased water consumption, moderate increased respiration, slight
			12-Sep-89	11:45	10 / 10:20	9	increased water consumption, moderate
			12-Sep-89	11:49	10 / 15:07	9	increased water consumption, moderate
			12-Sep-89	11:53	11 / 07:47	9	normal/no significant signs
			12-Sep-89	11:58	11 / 10:55	9	dilated pupils, moderate hunched posture, moderate
			12-Sep-89	12:05	11 / 14:52	9	dilated pupils, moderate
			12-Sep-89	12:11	12 / 07:53	9	dilated pupils, slight hunched posture, slight tremors, slight
			12-Sep-89	12:15	12 / 11:06	9	increased respiratory depth, moderate
			12-Sep-89	12:25	12 / 14:13	9	dilated pupils, moderate
			12-Sep-89	12:30	13 / 08:32	9	dilated pupils, moderate disoriented, slight increased respiration, slight lack of appetite, severe mucus in stool, severe
			12-Sep-89	12:38	13 / 10:00	9	dilated pupils, moderate lack of appetite, severe mucus in stool, severe
			12-Sep-89	12:42	13 / 14:22	9	increased water consumption, moderate dilated pupils, moderate lack of appetite, severe

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89				PRINTED: 26-Oct-89 Page: 70	
Cage		Animal Sex/group	Date and Time	Study Day/time	Oper	Clinical signs / Comments			
#	Number	/Subgroup	Data was Entered	Data was Taken	#				
30	89F00379	F/ 6/4	12-Sep-89 12:42	13 / 14:22	9	mucus in stool, severe increased water consumption, slight uncoordinated, slight lack of appetite, severe mucus in stool, severe hunched posture, slight sore, moderate, neck lack of appetite, severe mucus in stool, severe hunched posture, moderate sore, moderate, neck dilated pupils, moderate disoriented, moderate lack of appetite, severe mucus in stool, severe sore, moderate, neck dilated pupils, moderate disoriented, moderate sore, moderate, neck dilated pupils, moderate sore, moderate, neck dilated pupils, moderate normal/no significant signs apprehensive, moderate disoriented, moderate inactive, slight inactive, slight normal/no significant signs increased respiration, slight lacrimation, slight disoriented, slight inactive, slight hunched posture, slight lacrimation, slight inactive, slight disoriented, slight hunched posture, slight			
			12-Sep-89 12:51	14 / 07:44	9				
			12-Sep-89 12:57	14 / 09:15	9				
			12-Sep-89 13:03	14 / 14:06	9				
			12-Sep-89 13:08	15 / 07:28	9				
			08-Aug-89 14:24	1 / 10:46	9				
31	89F00344	F/ 7/1	08-Aug-89 14:43	1 / 11:55	9				
			08-Aug-89 14:54	1 / 16:20	9				
			08-Aug-89 14:59	2 / 08:28	9				
			08-Aug-89 15:11	2 / 10:10	9				
			08-Aug-89 15:20	2 / 14:07	9				
			08-Aug-89 15:30	3 / 07:44	9				
			08-Aug-89 15:41	3 / 10:03	9				

SUB-ACUTE/

SUB-ACUTE/

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
31	89F00344 F / 7/1	08-Aug-89 15:41	3 / 10:03	9	lacrimation, slight
		10-Aug-89 09:34	3 / 15:20	9	disoriented, moderate
					nasal stain, slight
		10-Aug-89 09:44	4 / 08:00	9	nasal stain, slight
					increased respiration, slight
					inactive, moderate
		10-Aug-89 09:53	4 / 10:55	9	apprehensive, slight
					inactive, slight
					hunched posture, moderate
		10-Aug-89 10:01	4 / 14:34	9	inactive, moderate
					increased respiration, moderate
					nasal stain, moderate
		10-Aug-89 10:07	5 / 08:04	9	normal/no significant signs
		10-Aug-89 10:11	5 / 11:27	9	disoriented, slight
					inactive, slight
		10-Aug-89 10:16	5 / 16:56	9	inactive, slight
					increased water consumption, severe
		10-Aug-89 13:03	6 / 08:19	9	inactive, slight
		10-Aug-89 13:07	6 / 10:48	9	inactive, slight
					increased respiration, slight
					disoriented, slight
		10-Aug-89 13:11	6 / 15:50	9	inactive, slight
					disoriented, slight
					increased water consumption, moderate
		10-Aug-89 13:17	7 / 08:31	9	apprehensive, slight
					nasal stain, slight
		10-Aug-89 13:28	7 / 10:02	9	disoriented, slight
					inactive, slight
					increased respiration, moderate
		10-Aug-89 14:03	7 / 14:40	9	disoriented, slight
					inactive, slight
					dark material in nare, moderate
		10-Aug-89 14:10	8 / 08:16	9	disoriented, slight
					inactive, slight
					dark material in nare, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
31	89F00344 F / 7/1	10-Aug-89 14:10	8 / 08:16	9	hunched posture, slight
		10-Aug-89 14:15	8 / 09:48	9	disoriented, moderate dark material in nare, moderate tremors, moderate
		10-Aug-89 14:22	8 / 14:03	9	disoriented, slight dark material in nare, moderate inactive, slight
		10-Aug-89 14:29	9 / 07:37	9	disoriented, slight dark material in nare, moderate
		10-Aug-89 14:36	9 / 09:59	9	disoriented, slight dark material in nare, moderate
		10-Aug-89 14:48	9 / 14:38	9	disoriented, slight dark material in nare, moderate hunched posture, moderate
		10-Aug-89 15:03	10 / 07:18	9	disoriented, slight dark material in nare, moderate
		10-Aug-89 15:09	10 / 09:58	9	disoriented, slight dark material in nare, moderate
		10-Aug-89 15:13	10 / 14:16	9	disoriented, slight dark material in nare, moderate
		10-Aug-89 15:18	11 / 07:51	9	disoriented, slight dark material in nare, moderate
		10-Aug-89 15:25	11 / 10:05	9	disoriented, moderate hunched posture, moderate tremors, moderate
		10-Aug-89 15:29	11 / 14:14	9	increased respiration, moderate increased respiratory depth, moderate
		14-Aug-89 09:15	12 / 08:04	9	disoriented, moderate hunched posture, slight
		14-Aug-89 09:21	12 / 09:27	9	disoriented, slight increased respiration, moderate
		14-Aug-89 09:27	12 / 15:40	9	increased respiration depth, slight disoriented, slight
		14-Aug-89 09:30	13 / 06:19	9	normal/no significant signs
		14-Aug-89 09:36	13 / 09:55	9	inactive, slight disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89				PRINTED: 26-Oct-89 Page: 73		SUB-ACUTE/	
Cage #	Animal Sex/group	Date Data Was Entered	Time Data Was Entered	Study Day/time Oper Data Was Taken	#	Clinical signs / Comments					
31	89F00344	F	7/1	14-Aug-89	09:36	13 / 09:55	9	increased respiration, moderate			
				14-Aug-89	09:41	13 / 13:52	9	inactive, slight			
				14-Aug-89	09:47	14 / 08:06	9	hunched posture, slight			
				14-Aug-89	09:59	- 14 / 09:19	9	hunched posture, slight			
				14-Aug-89	10:05	14 / 16:04	9	increased respiratory depth, slight			
				14-Aug-89	10:09	15 / 07:46	9	hunched posture, slight			
32	89F00353	F	7/2	14-Aug-89	10:18	1 / 09:30	9	inactive, slight			
				14-Aug-89	10:45	1 / 10:31	9	increased respiration, slight			
				14-Aug-89	10:53	1 / 14:07	9	normal/no significant signs			
				23-Aug-89	14:27	2 / 08:07	9	inactive, slight			
				23-Aug-89	14:35	2 / 10:24	9	disoriented, moderate			
				23-Aug-89	14:43	2 / 15:26	9	apprehensive, moderate			
				23-Aug-89	14:47	3 / 08:17	9	increased respiration, moderate			
				23-Aug-89	14:53	3 / 11:16	9	inactive, slight			
				23-Aug-89	15:00	3 / 14:46	9	disoriented, slight			
				23-Aug-89	15:03	4 / 08:09	9	increased respiration, slight			
				23-Aug-89	15:08	4 / 12:19	9	disoriented, slight			
				23-Aug-89	15:11	4 / 17:06	9	disoriented, moderate			
				23-Aug-89	15:11	4 / 17:06	9	increased respiration, slight			
				23-Aug-89	15:11	4 / 17:06	9	disoriented, slight			
				23-Aug-89	15:11	4 / 17:06	9	disoriented, slight			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GF  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
32	89F00353	F / 7/2			
		23-Aug-89	15:15	5 / 08:24	9 disoriented, slight
		23-Aug-89	15:19	5 / 11:14	9 inactive, slight
		23-Aug-89	15:23	5 / 15:55	9 increased respiration, slight
		02-Oct-89	09:23	6 / 08:43	4 inactive, slight
					apprehensive, moderate
		02-Oct-89	09:33	6 / 10:23	4 inactive, moderate
					apprehensive, moderate
		02-Oct-89	09:45	6 / 14:48	4 inactive, moderate
		07-Sep-89	13:08	7 / 08:25	9 inactive, moderate
		07-Sep-89	13:22	7 / 10:14	9 inactive, moderate
					disoriented, slight
					increased respiration, moderate
		07-Sep-89	13:31	7 / 14:10	9 inactive, moderate
		07-Sep-89	13:39	8 / 07:11	9 inactive, moderate
		07-Sep-89	13:46	8 / 10:15	9 apprehensive, slight
		07-Sep-89	13:53	8 / 14:45	9 apprehensive, slight
					hunched posture, slight
		07-Sep-89	14:19	9 / 07:30	9 disoriented, slight
		07-Sep-89	14:24	9 / 10:20	9 disoriented, slight
					inactive, slight
		07-Sep-89	14:28	9 / 14:21	9 inactive, slight
		07-Sep-89	14:37	10 / 08:01	9 inactive, slight
					apprehensive, moderate
		07-Sep-89	14:45	10 / 10:37	9 inactive, moderate
					apprehensive, moderate
					disoriented, slight
		07-Sep-89	14:51	10 / 14:26	9 inactive, slight
					hunched posture, moderate
					increased respiration, slight
		07-Sep-89	14:56	11 / 08:10	9 normal/no significant signs
		07-Sep-89	15:03	11 / 09:50	9 inactive, moderate
					increased respiration, slight
		07-Sep-89	15:09	11 / 15:46	9 inactive, moderate
		07-Sep-89	15:21	12 / 06:27	9 increased respiratory depth, moderate
		07-Sep-89	15:25	12 / 10:27	9 inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data Was Entered	Study Day/time Oper Data Was Taken	#	Clinical signs / Comments
32	89F00353	F / 7/2			
		07-Sep-89 15:25	12 / 10:27	9	Increased respiration, slight
		07-Sep-89 15:32	12 / 13:58	9	inactive, slight
					Increased respiration, slight
		07-Sep-89 15:36	13 / 08:15	9	inactive, slight
		07-Sep-89 15:42	13 / 10:49	9	inactive, moderate
					apprehensive, moderate
					Increased respiration, slight
					normal/no significant signs
		07-Sep-89 15:48	13 / 16:10	9	apprehensive, moderate
		07-Sep-89 15:53	14 / 08:31	9	inactive, slight
		07-Sep-89 15:59	14 / 10:06	9	Increased respiration, slight
					normal/no significant signs
		07-Sep-89 16:04	14 / 14:06	9	normal/no significant signs
		07-Sep-89 16:08	15 / 07:30	9	normal/no significant signs
		11-Sep-89 08:09	1 / 08:46	9	normal/no significant signs
		11-Sep-89 08:22	1 / 10:45	9	tremors, moderate
					hunched posture, slight
					Increased respiration, slight
					Increased respiratory depth, moderate
					disoriented, slight
					inactive, moderate
		11-Sep-89 09:09	1 / 14:09	9	hunched posture, slight
					inactive, moderate
		11-Sep-89 09:17	2 / 08:22	9	hunched posture, moderate
					inactive, moderate
		11-Sep-89 09:28	2 / 11:05	9	hunched posture, moderate
					inactive, moderate
					Increased respiration, slight
					Increased respiratory depth, slight
					disoriented, slight
		11-Sep-89 09:37	2 / 14:14	9	hunched posture, slight
					inactive, moderate
					Increased respiration, slight
					Increased respiratory depth, moderate
		11-Sep-89 09:44	3 / 08:10	9	hunched posture, slight
					inactive, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
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Cage #	Animal Sex/group Date	Time Data Was Entered	Study Day/Time Oper Data Was Taken	Clinical signs / Comments
33	89F00372	F / 7/3		
	11-Sep-89	09:44	3 / 08:10	9 increased respiration, slight
	11-Sep-89	09:51	3 / 11:15	9 inactive, moderate
	11-Sep-89	09:55	3 / 14:32	9 inactive, slight
	11-Sep-89	10:02	4 / 08:36	9 inactive, moderate
				hunched posture, moderate
				increased respiration, slight
	11-Sep-89	10:14	4 / 11:22	9 inactive, moderate
				hunched posture, moderate
				disoriented, slight
	11-Sep-89	10:20	4 / 14:53	9 normal/no significant signs
	11-Sep-89	10:24	5 / 08:38	9 normal/no significant signs
	11-Sep-89	10:34	5 / 10:12	9 inactive, slight
	11-Sep-89	10:38	5 / 16:06	9 apprehensive, slight
	11-Sep-89	10:44	6 / 07:23	9 apprehensive, slight
	11-Sep-89	10:48	6 / 11:14	9 increased respiration, slight
				increased respiratory depth, slight
				inactive, moderate
	11-Sep-89	10:57	6 / 14:16	9 inactive, slight
				apprehensive, slight
	11-Sep-89	11:05	7 / 08:02	9 hunched posture, slight
				increased respiratory depth, slight
				disoriented, slight
	11-Sep-89	11:11	7 / 11:32	9 hunched posture, slight
				increased respiratory depth, slight
				disoriented, slight
	11-Sep-89	11:18	7 / 16:20	9 normal/no significant signs
	11-Sep-89	11:23	8 / 07:41	9 increased respiration, slight
				hunched posture, slight
	11-Sep-89	11:28	8 / 11:04	9 hunched posture, moderate
				increased respiratory depth, slight
				inactive, slight
				disoriented, moderate
	11-Sep-89	11:52	8 / 14:20	9 normal/no significant signs
	11-Sep-89	12:04	9 / 08:09	9 normal/no significant signs
	11-Sep-89	12:10	9 / 10:03	9 hunched posture, moderate



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 86010F  
 Date Listing by Animal  
 Study Start Date: 30-May-89

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 SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Entered	Study Day/Time	Oper Data Was Taken	#	Clinical signs / Comments
33	89F00372	F	7/3	11-Sep-89	12:10	9 / 10:03	9 increased respiratory depth, moderate inactive, moderate
				11-Sep-89	12:15	9 / 14:08	9 normal/no significant signs
				11-Sep-89	12:25	10 / 07:27	9 normal/no significant signs
				11-Sep-89	12:31	10 / 10:21	9 increased respiration, slight hunched posture, slight sore, moderate, neck
				11-Sep-89	12:37	10 / 14:44	9 normal/no significant signs
				11-Sep-89	12:50	11 / 07:24	9 collar caught in mouth
				11-Sep-89	12:58	11 / 09:55	9 increased respiration, slight inactive, slight
				11-Sep-89	13:03	11 / 15:03	9 increased respiration, moderate
				11-Sep-89	13:07	12 / 07:38	9 increased respiration, slight inactive, slight
				11-Sep-89	13:12	12 / 10:18	9 inactive, moderate hunched posture, moderate
				11-Sep-89	13:23	12 / 14:45	9 inactive, slight hunched posture, slight
				11-Sep-89	13:28	13 / 07:44	9 inactive, slight
				11-Sep-89	13:32	13 / 10:37	9 inactive, slight disoriented, slight
				11-Sep-89	13:39	13 / 14:07	9 inactive, slight hunched posture, slight
				11-Sep-89	13:51	14 / 08:22	9 increased respiratory depth, moderate inactive, moderate collar caught in mouth
				11-Sep-89	13:58	14 / 09:45	9 sore, severe, mouth bloody nares, severe
				11-Sep-89	14:05	14 / 14:16	9 inactive, moderate sore, severe, mouth
				11-Sep-89	14:12	15 / 07:30	9 sore, severe, mouth hunched posture, slight tremors, moderate
				11-Sep-89	14:12	15 / 07:30	9 sore, severe, mouth hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	#	Clinical signs / Comments
33	89F00372 F / 7/3	11-Sep-89 14:12	15 / 07:30	9 tremors, slight inactive, slight
34	89F00366 F / 7/3	11-Sep-89 08:10	1 / 08:43	9 normal/no significant signs
		11-Sep-89 08:22	1 / 10:34	9 increased respiration, slight
		11-Sep-89 09:10	1 / 14:04	9 inactive, slight
		11-Sep-89 09:17	2 / 08:15	9 inactive, slight apprehensive, moderate
		11-Sep-89 09:29	2 / 10:45	9 inactive, slight increased respiration, slight
		11-Sep-89 09:37	2 / 14:05	9 normal/no significant signs
		11-Sep-89 09:44	3 / 06:59	9 inactive, slight
		11-Sep-89 09:51	3 / 10:53	9 normal/no significant signs
		11-Sep-89 09:56	3 / 14:29	9 normal/no significant signs
		11-Sep-89 10:02	4 / 08:25	9 normal/no significant signs
		11-Sep-89 10:15	4 / 11:02	9 normal/no significant signs
		11-Sep-89 10:20	4 / 14:49	9 normal/no significant signs
		11-Sep-89 10:24	5 / 08:28	9 normal/no significant signs
		11-Sep-89 10:34	5 / 10:05	9 normal/no significant signs
		11-Sep-89 10:39	5 / 16:02	9 normal/no significant signs
		11-Sep-89 10:44	6 / 07:18	9 normal/no significant signs
		11-Sep-89 10:49	6 / 11:04	9 increased respiration, slight inactive, slight
		11-Sep-89 10:58	6 / 14:12	9 normal/no significant signs
		11-Sep-89 11:06	7 / 07:52	9 inactive, slight
		11-Sep-89 11:12	7 / 11:24	9 inactive, moderate
		11-Sep-89 11:18	7 / 16:17	9 normal/no significant signs
		11-Sep-89 11:23	8 / 07:35	9 normal/no significant signs
		11-Sep-89 11:28	8 / 10:51	9 hunched posture, slight increased respiration, slight disoriented, slight
		11-Sep-89 11:52	8 / 14:16	9 normal/no significant signs
		11-Sep-89 12:04	9 / 08:02	9 normal/no significant signs
		11-Sep-89 12:10	9 / 09:45	9 hunched posture, moderate
		11-Sep-89 12:16	9 / 14:02	9 inactive, slight hunched posture, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
Page: 79

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/Time Oper	Clinical signs / Comments
34	89F00366	F / 7/3			
		11-Sep-89	12:16	9 / 14:02	9 inactive, slight
		11-Sep-89	12:25	10 / 07:23	9 normal/no significant signs
		11-Sep-89	12:31	10 / 09:56	9 hunched posture, slight
					increased respiration, moderate
					inactive, moderate
		11-Sep-89	12:37	10 / 14:41	9 normal/no significant signs
		11-Sep-89	12:51	11 / 07:16	9 inactive, slight
					increased respiratory depth, moderate
		11-Sep-89	12:59	11 / 09:07	9 normal/no significant signs
		11-Sep-89	13:04	11 / 14:59	9 normal/no significant signs
		11-Sep-89	13:08	12 / 07:34	9 normal/no significant signs
		11-Sep-89	13:13	12 / 09:31	9 hunched posture, slight
					disoriented, slight
					inactive, slight
		11-Sep-89	13:24	12 / 14:42	9 hunched posture, slight
					disoriented, slight
		11-Sep-89	13:29	13 / 07:37	9 hunched posture, slight
					inactive, slight
		11-Sep-89	13:33	13 / 10:27	9 inactive, moderate
					disoriented, moderate
		11-Sep-89	13:40	13 / 14:03	9 inactive, slight
					disoriented, moderate
		11-Sep-89	13:52	14 / 08:13	9 sore, moderate, neck
					wide-legged stance, moderate
		11-Sep-89	13:58	14 / 09:36	9 sore, moderate, neck
					wide-legged stance, moderate
					inactive, moderate
					increased respiration, moderate
		11-Sep-89	14:06	14 / 14:10	9 sore, moderate, neck
		11-Sep-89	14:13	15 / 07:24	9 sore, moderate, neck
					inactive, slight
					increased respiration, slight
35	89F00390	F / 7/4			
		12-Sep-89	07:57	1 / 08:30	9 normal/no significant signs
		12-Sep-89	08:07	1 / 11:11	9 increased respiration, slight
		12-Sep-89	08:17	1 / 14:20	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
Page: 80

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Data was Taken	Oper #	Clinical signs / Comments
35	89F00390	F / 7/4				
		12-Sep-89	08:24	2 / 08:08	9	increased respiration, moderate
		12-Sep-89	08:29	2 / 11:31	9	increased respiration, moderate
		12-Sep-89	08:34	2 / 14:37	9	increased respiration, moderate
		12-Sep-89	08:42	3 / 08:56	9	apprehensive, moderate
		12-Sep-89	08:55	3 / 11:44	9	increased respiration, moderate
						hunched posture, slight
		12-Sep-89	09:07	3 / 14:57	9	normal/no significant signs
		12-Sep-89	09:21	4 / 08:48	9	normal/no significant signs
		12-Sep-89	09:25	4 / 10:25	9	increased respiration, slight
						inactive, moderate
		12-Sep-89	09:30	4 / 16:11	9	inactive, slight
		12-Sep-89	09:34	5 / 07:28	9	inactive, moderate
		12-Sep-89	09:47	5 / 11:27	9	inactive, moderate
		12-Sep-89	09:53	5 / 14:23	9	inactive, moderate
						hunched posture, slight
		12-Sep-89	10:00	6 / 08:09	9	inactive, slight
		12-Sep-89	10:07	6 / 11:40	9	inactive, slight
						hunched posture, moderate
						tremors, slight
		12-Sep-89	10:15	6 / 16:26	9	disoriented, moderate
						apprehensive, slight
						hunched posture, moderate
		12-Sep-89	10:25	7 / 07:50	9	disoriented, moderate
						hunched posture, moderate
						disoriented, slight
		12-Sep-89	10:36	7 / 11:19	9	hunched posture, moderate
						disoriented, moderate
						increased respiration, slight
						tremors, slight
		12-Sep-89	10:55	7 / 14:25	9	increased respiration, slight
		12-Sep-89	10:59	8 / 08:12	9	normal/no significant signs
		12-Sep-89	11:06	8 / 10:20	9	apprehensive, moderate
						disoriented, slight
						hunched posture, slight
		12-Sep-89	11:12	8 / 14:11	9	increased respiration, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010F  
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SUB-ACUTE /

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**Sub-Acute/  
Data Listing by Animal  
Study Start Date: 30-May-89**

Cage #	Animal Number	Sex	Group	Date Data Entered	Time Data Entered	Study Day/time	Operator
1	1	M	1	1/1/80	10:00	1	Operator
2	2	F	2	2/2/80	11:00	2	Operator
3	3	M	3	3/3/80	12:00	3	Operator
4	4	F	4	4/4/80	13:00	4	Operator
5	5	M	5	5/5/80	14:00	5	Operator
6	6	F	6	6/6/80	15:00	6	Operator
7	7	M	7	7/7/80	16:00	7	Operator
8	8	F	8	8/8/80	17:00	8	Operator
9	9	M	9	9/9/80	18:00	9	Operator
10	10	F	10	10/10/80	19:00	10	Operator
11	11	M	11	11/11/80	20:00	11	Operator
12	12	F	12	12/12/80	21:00	12	Operator
13	13	M	13	13/13/80	22:00	13	Operator
14	14	F	14	14/14/80	23:00	14	Operator
15	15	M	15	15/15/80	24:00	15	Operator
16	16	F	16	16/16/80	25:00	16	Operator
17	17	M	17	17/17/80	26:00	17	Operator
18	18	F	18	18/18/80	27:00	18	Operator
19	19	M	19	19/19/80	28:00	19	Operator
20	20	F	20	20/20/80	29:00	20	Operator
21	21	M	21	21/21/80	30:00	21	Operator
22	22	F	22	22/22/80	31:00	22	Operator
23	23	M	23	23/23/80	32:00	23	Operator
24	24	F	24	24/24/80	33:00	24	Operator
25	25	M	25	25/25/80	34:00	25	Operator
26	26	F	26	26/26/80	35:00	26	Operator
27	27	M	27	27/27/80	36:00	27	Operator
28	28	F	28	28/28/80	37:00	28	Operator
29	29	M	29	29/29/80	38:00	29	Operator
30	30	F	30	30/30/80	39:00	30	Operator
31	31	M	31	31/31/80	40:00	31	Operator
32	32	F	32	32/32/80	41:00	32	Operator
33	33	M	33	33/33/80	42:00	33	Operator
34	34	F	34	34/34/80	43:00	34	Operator
35	35	M	35	35/35/80	44:00	35	Operator
36	36	F	36	36/36/80	45:00	36	Operator
37	37	M	37	37/37/80	46:00	37	Operator
38	38	F	38	38/38/80	47:00	38	Operator
39	39	M	39	39/39/80	48:00	39	Operator
40	40	F	40	40/40/80	49:00	40	Operator
41	41	M	41	41/41/80	50:00	41	Operator
42	42	F	42	42/42/80	51:00	42	Operator
43	43	M	43	43/43/80	52:00	43	Operator
44	44	F	44	44/44/80	53:00	44	Operator
45	45	M	45	45/45/80	54:00	45	Operator
46	46	F	46	46/46/80	55:00	46	Operator
47	47	M	47	47/47/80	56:00	47	Operator
48	48	F	48	48/48/80	57:00	48	Operator
49	49	M	49	49/49/80	58:00	49	Operator
50	50	F	50	50/50/80	59:00	50	Operator
51	51	M	51	51/51/80	60:00	51	Operator
52	52	F	52	52/52/80	61:00	52	Operator
53	53	M	53	53/53/80	62:00		

Clinical signs / Comments

35	89F00390	F / 7/4	12-Sep-89	11:16	9 / 07:34	9	hunched posture, slight loose stool, slight inactive, slight increased respiration, slight apprehensive, moderate hunched posture, slight normal/no significant signs apprehensive, moderate normal/no significant signs normal/no significant signs normal/no significant signs hunched posture, slight inactive, slight normal/no significant signs normal/no significant signs increased respiration, slight normal/no significant signs inactive, slight increased respiration, slight hunched posture, slight uncoordinated, slight
			12-Sep-89	11:26	9 / 10:41	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	11:33	9 / 14:48	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	11:37	10 / 07:33	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	11:45	10 / 10:13	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	11:49	10 / 15:07	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	11:53	11 / 07:46	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	11:59	11 / 10:55	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:05	11 / 14:50	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:11	12 / 07:50	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:15	12 / 11:00	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:25	12 / 14:11	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:30	13 / 08:31	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:38	13 / 09:55	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:43	13 / 14:22	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:52	14 / 07:40	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	12:57	14 / 09:08	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	13:04	14 / 14:04	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			12-Sep-89	13:08	15 / 07:25	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			08-Aug-89	14:24	1 / 10:48	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs
			08-Aug-89	14:43	1 / 12:11	9	hunched posture, slight uncoordinated, slight inactive, slight normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89				PRINTED: 26-Oct-89 Page: 82	
				SUB-ACUTE/					
Cage Animal Sex/group Date and Time Study Day/time Oper				Clinical signs / Comments					
# Number /Subgroup Data was Entered Data was Taken #									
36 89F00346 F/ 8/1 08-Aug-89 14:54 1 / 16:21 9				Increased respiration, slight					
08-Aug-89 15:00 2 / 08:36 9				Increased respiratory depth, moderate					
08-Aug-89 15:11 2 / 10:04 9				aggressive, moderate					
08-Aug-89 15:20 2 / 14:09 9				disoriented, slight					
08-Aug-89 15:30 3 / 07:52 9				inactive, slight					
08-Aug-89 15:43 3 / 10:15 9				apprehensive, slight					
				aggressive, moderate					
				apprehensive, slight					
				disoriented, slight					
				inactive, moderate					
10-Aug-89 09:34 3 / 15:21 9				hunched posture, slight					
10-Aug-89 09:44 4 / 08:08 9				hunched posture, slight					
10-Aug-89 09:53 4 / 11:00 9				Increased respiration, slight					
				Increased respiratory depth, moderate					
				apprehensive, moderate					
10-Aug-89 10:02 4 / 14:35 9				Increased respiratory depth, moderate					
				apprehensive, moderate					
				hunched posture, slight					
				apprehensive, moderate					
10-Aug-89 10:07 5 / 08:06 9				hunched posture, slight					
				disoriented, slight					
10-Aug-89 10:11 5 / 11:37 9				inactive, slight					
10-Aug-89 10:16 5 / 16:58 9				Increased respiration, slight					
10-Aug-89 13:03 6 / 08:20 9				apprehensive, slight					
				Increased respiration, slight					
10-Aug-89 13:07 6 / 10:54 9				normal/no significant signs					
10-Aug-89 13:11 6 / 15:51 9				Increased respiration, slight					
10-Aug-89 13:17 7 / 08:34 9				apprehensive, slight					
				hunched posture, slight					
10-Aug-89 13:28 7 / 10:13 9				disoriented, moderate					
				inactive, slight					

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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SUB-ACUTE/

Cage #	Animal Sex/Group Date and Number /Subgroup Data was Entered	Time Study Day/Time Oper Data was Taken	Clinical signs / Comments
36	89F00346 F/ 8/1	10-Aug-89 14:04	7 / 14:43 9 disoriented, slight apprehensive, moderate
		10-Aug-89 14:10	8 / 08:18 9 apprehensive, moderate
		10-Aug-89 14:16	8 / 09:57 9 apprehensive, moderate disoriented, slight
		10-Aug-89 14:23	8 / 14:04 9 disoriented, slight aggressive, moderate
		10-Aug-89 14:29	9 / 07:40 9 apprehensive, moderate
		10-Aug-89 14:37	9 / 10:05 9 disoriented, moderate aggressive, slight
		10-Aug-89 14:48	9 / 14:40 9 hunched posture, slight disoriented, slight
		10-Aug-89 15:03	10 / 07:22 9 hunched posture, slight apprehensive, moderate
		10-Aug-89 15:09	10 / 10:04 9 hunched posture, slight inactive, moderate
		10-Aug-89 15:13	10 / 14:17 9 normal/no significant signs
		10-Aug-89 15:19	11 / 07:52 9 normal/no significant signs
		10-Aug-89 15:25	11 / 10:11 9 hunched posture, slight inactive, slight
		10-Aug-89 15:29	11 / 14:16 9 normal/no significant signs
		14-Aug-89 09:15	12 / 08:05 9 normal/no significant signs
		14-Aug-89 09:22	12 / 09:30 9 hunched posture, slight increased respiratory depth, slight
		14-Aug-89 09:27	12 / 15:42 9 aggressive, moderate
		14-Aug-89 09:31	13 / 06:21 9 inactive, slight
		14-Aug-89 09:36	13 / 10:01 9 hunched posture, slight increased respiration, slight
		14-Aug-89 09:42	13 / 13:53 9 increased respiration, slight
		14-Aug-89 09:47	14 / 08:09 9 inactive, slight
		14-Aug-89 10:00	14 / 10:28 9 hunched posture, moderate
		14-Aug-89 10:05	14 / 16:05 9 hunched posture, moderate inactive, moderate
		14-Aug-89 10:09	15 / 08:15 9 hunched posture, moderate startles, slight
37	89F00359 F/ 8/2	14-Aug-89 10:19	1 / 09:40 9 normal/no significant signs
		14-Aug-89 10:45	1 / 10:58 9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Messes

Study Number: 88010F  
Data Listing by Animal  
Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Data Was Entered	Study Day/time Oper Data Was Taken	#	Clinical signs / Comments
37	89F00359	F / 8/2			
		14-Aug-89 10:53	1 / 14:13	9	increased water consumption, slight
		23-Aug-89 14:28	2 / 08:12	9	disoriented, slight
		23-Aug-89 14:35	2 / 10:41	9	disoriented, moderate
		23-Aug-89 14:44	2 / 15:30	9	normal/no significant signs
		23-Aug-89 14:47	3 / 08:21	9	normal/no significant signs
		23-Aug-89 14:55	3 / 11:33	9	disoriented, slight
					dilated pupils, moderate
		23-Aug-89 15:00	3 / 15:11	9	normal/no significant signs
		23-Aug-89 15:03	4 / 08:15	9	normal/no significant signs
		23-Aug-89 15:08	4 / 12:49	9	inactive, slight
		23-Aug-89 15:12	4 / 17:10	9	inactive, slight
					increased respiration, moderate
		23-Aug-89 15:15	5 / 08:30	9	normal/no significant signs
		23-Aug-89 15:19	5 / 11:34	9	normal/no significant signs
		23-Aug-89 15:23	5 / 15:57	9	normal/no significant signs
		02-Oct-89 09:23	6 / 08:50	4	disoriented, slight
		02-Oct-89 09:34	6 / 10:40	4	disoriented, slight
					inactive, moderate
					hunched posture, moderate
					increased respiration, slight
		02-Oct-89 09:46	6 / 14:54	4	disoriented, slight
					mucous on nares, moderate
		07-Sep-89 13:09	7 / 08:32	9	disoriented, slight
					dilated pupils, slight
					inactive, slight
					hunched posture, slight
		07-Sep-89 13:23	7 / 10:21	9	disoriented, moderate
					dilated pupils, moderate
					inactive, moderate
					increased respiration, severe
					mucous on nares, moderate
		07-Sep-89 13:32	7 / 14:14	9	disoriented, slight
		07-Sep-89 13:39	8 / 07:54	9	normal/no significant signs
		07-Sep-89 13:46	8 / 10:25	9	disoriented, moderate
					hunched posture, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
37	89F00359	F/ 8/2	07-Sep-89 13:54	8 / 14:50	9 hunched posture, slight aggressive, moderate
			07-Sep-89 14:19	9 / 07:48	9 normal/no significant signs
			07-Sep-89 14:24	9 / 10:35	9 inactive, moderate
			07-Sep-89 14:28	9 / 14:24	9 inactive, moderate
			07-Sep-89 14:38	10 / 08:12	9 disoriented, slight tremors, moderate
			07-Sep-89 14:45	10 / 10:51	9 inactive, moderate
			07-Sep-89 14:51	10 / 14:39	9 inactive, slight
			07-Sep-89 14:56	11 / 08:16	9 normal/no significant signs
			07-Sep-89 15:03	11 / 10:05	9 normal/no significant signs
			07-Sep-89 15:09	11 / 15:57	9 dilated pupils, moderate
			07-Sep-89 15:21	12 / 06:32	9 dilated pupils, moderate
			07-Sep-89 15:26	12 / 10:51	9 increased respiration, slight pulled catheter
			07-Sep-89 15:32	12 / 14:02	9 normal/no significant signs
			07-Sep-89 15:36	13 / 08:18	9 normal/no significant signs
			07-Sep-89 15:43	13 / 11:15	9 disoriented, slight hunched posture, slight tremors, slight hyperactive, slight
			07-Sep-89 15:48	13 / 16:12	9 normal/no significant signs
			07-Sep-89 15:53	14 / 08:41	9 normal/no significant signs
			07-Sep-89 15:59	14 / 11:40	9 disoriented, moderate inactive, slight
			07-Sep-89 16:04	14 / 14:10	9 normal/no significant signs
			07-Sep-89 16:08	15 / 08:17	9 normal/no significant signs
			11-Sep-89 08:10	1 / 08:42	9 tremors, moderate
			11-Sep-89 08:23	1 / 10:33	9 apprehensive, moderate
			11-Sep-89 09:11	1 / 14:03	9 disoriented, slight
			11-Sep-89 09:18	2 / 08:14	9 apprehensive, moderate disoriented, slight apprehensive, slight
38	89F00365	F/ 8/3			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89				PRINTED: 26-Oct-89 Page: 86 SUB-ACUTE/			
Cage #	Animal Number	Sex/group	Date and Time Data was Entered	Study Day/time	Oper Data was Taken	#	Clinical signs / Comments				
38	89F00365	F	9/3	11-Sep-89 09:18	2 / 08:14	9	dark material in nare, moderate				
				11-Sep-89 09:30	2 / 10:40	9	disoriented, moderate				
							dark material in nare, moderate				
							inactive, slight				
							increased respiration, slight				
			11-Sep-89 09:38	2 / 14:03	9		disoriented, slight				
							dark material in nare, moderate				
							inactive, slight				
							tremors, slight				
			11-Sep-89 09:45	3 / 06:52	9		inactive, slight				
							apprehensive, moderate				
			11-Sep-89 09:51	3 / 10:52	9		normal/no significant signs				
			11-Sep-89 09:56	3 / 14:28	9		normal/no significant signs				
			11-Sep-89 10:03	4 / 08:24	9		disoriented, slight				
							increased respiration, slight				
			11-Sep-89 10:15	4 / 11:04	9		increased respiration, slight				
							inactive, moderate				
			11-Sep-89 10:21	4 / 14:48	9		normal/no significant signs				
			11-Sep-89 10:24	5 / 08:26	9		normal/no significant signs				
			11-Sep-89 10:35	5 / 10:05	9		apprehensive, slight				
							inactive, slight				
			11-Sep-89 10:39	5 / 16:01	9		normal/no significant signs				
			11-Sep-89 10:44	6 / 07:16	9		normal/no significant signs				
			11-Sep-89 10:49	6 / 11:00	9		dark material in nare, slight				
							inactive, slight				
							increased respiration, slight				
			11-Sep-89 10:58	6 / 14:12	9		inactive, slight				
							dark material in nare, slight				
			11-Sep-89 11:06	7 / 07:51	9		normal/no significant signs				
			11-Sep-89 11:12	7 / 11:21	9		disoriented, moderate				
							inactive, slight				
			11-Sep-89 11:19	7 / 16:16	9		normal/no significant signs				
			11-Sep-89 11:23	8 / 07:33	9		disoriented, slight				
							uncoordinated, moderate				
							hunched posture, slight				

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
38	89F00365	F / 8/3	11-Sep-89	11:23	8 / 07:33	9	inactive, slight
			11-Sep-89	11:29	8 / 10:50	9	inactive, slight
			11-Sep-89	11:52	8 / 14:16	9	increased respiration, moderate
			11-Sep-89	12:05	9 / 08:01	9	normal/no significant signs
			11-Sep-89	12:11	9 / 09:43	9	normal/no significant signs
						9	disoriented, slight
						9	inactive, slight
						9	increased respiration, moderate
			11-Sep-89	12:18	9 / 14:01	9	disoriented, slight
						9	inactive, slight
						9	increased respiration, moderate
			11-Sep-89	12:26	10 / 07:22	9	increased respiration, slight
			11-Sep-89	12:32	10 / 09:51	9	increased respiration, moderate
						9	inactive, moderate
			11-Sep-89	12:37	10 / 14:40	9	normal/no significant signs
			11-Sep-89	12:51	11 / 07:16	9	normal/no significant signs
			11-Sep-89	12:59	11 / 09:00	9	inactive, moderate
						9	increased respiratory depth, slight
			11-Sep-89	13:04	11 / 14:59	9	normal/no significant signs
			11-Sep-89	13:08	12 / 07:34	9	normal/no significant signs
			11-Sep-89	13:13	12 / 09:23	9	disoriented, slight
						9	hunched posture, moderate
						9	inactive, moderate
						9	increased respiration, moderate
			11-Sep-89	13:24	12 / 14:41	9	increased respiratory depth, slight
						9	disoriented, slight
						9	hunched posture, moderate
						9	inactive, moderate
						9	increased respiration, moderate
			11-Sep-89	13:29	13 / 07:36	9	increased respiratory depth, slight
						9	disoriented, slight
						9	hunched posture, moderate
						9	inactive, moderate
			11-Sep-89	13:33	13 / 10:17	9	disoriented, slight
						9	hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010F  
 Data Listing by Animal  
 Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	#		
38	89F00365	F / 8/3	11-Sep-89 13:33	13 / 10:17	9	uncoordinated, moderate
			11-Sep-89 13:40	13 / 14:02	9	disoriented, slight
						hunched posture, slight
						uncoordinated, slight
			11-Sep-89 13:52	14 / 08:12	9	apprehensive, slight
			11-Sep-89 13:58	14 / 09:30	9	apprehensive, slight
						increased respiration, slight
			11-Sep-89 14:06	14 / 14:08	9	increased respiration, slight
			11-Sep-89 14:13	15 / 07:23	9	increased respiration, slight
						apprehensive, slight
						inactive, slight
			12-Sep-89 07:57	1 / 08:34	9	apprehensive, slight
			12-Sep-89 08:07	1 / 11:21	9	apprehensive, slight
						hunched posture, slight
						increased respiration, moderate
			12-Sep-89 08:17	1 / 14:21	9	hunched posture, slight
			12-Sep-89 08:24	2 / 08:09	9	hunched posture, slight
			12-Sep-89 08:30	2 / 11:36	9	increased respiration, slight
			12-Sep-89 08:34	2 / 14:41	9	increased respiration, slight
			12-Sep-89 08:42	3 / 08:57	9	disoriented, slight
			12-Sep-89 08:56	3 / 11:45	9	disoriented, slight
						hunched posture, moderate
						increased respiration, slight
			12-Sep-89 09:07	3 / 15:00	9	normal/no significant signs
			12-Sep-89 09:21	4 / 09:00	9	normal/no significant signs
			12-Sep-89 09:25	4 / 10:32	9	normal/no significant signs
			12-Sep-89 09:30	4 / 16:16	9	normal/no significant signs
			12-Sep-89 09:34	5 / 07:31	9	normal/no significant signs
			12-Sep-89 09:47	5 / 11:37	9	normal/no significant signs
			12-Sep-89 09:53	5 / 14:26	9	normal/no significant signs
			12-Sep-89 10:00	6 / 08:17	9	normal/no significant signs
			12-Sep-89 10:07	6 / 11:48	9	hunched posture, slight
						disoriented, slight
			12-Sep-89 10:15	6 / 16:27	9	normal/no significant signs
			12-Sep-89 10:25	7 / 07:54	9	normal/no significant signs

39 89F00392

F / 8/4

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Date Listing by Animal  
 Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
39	89F00392	F / 8/4	12-Sep-89 10:36	7 / 11:26	9 hunched posture, moderate increased respiration, moderate
		12-Sep-89 10:55	7 / 14:29	9 normal/no significant signs	
		12-Sep-89 11:00	8 / 08:11	9 normal/no significant signs	
		12-Sep-89 11:06	8 / 10:36	9 inactive, slight tremors, slight	
		12-Sep-89 11:12	8 / 14:12	9 normal/no significant signs	
		12-Sep-89 11:17	9 / 07:36	9 tremors, moderate	
		12-Sep-89 11:26	9 / 10:50	9 increased respiration, slight	
		12-Sep-89 11:33	9 / 14:51	9 normal/no significant signs	
		12-Sep-89 11:38	10 / 07:34	9 normal/no significant signs	
		12-Sep-89 11:45	10 / 10:30	9 normal/no significant signs	
		12-Sep-89 11:49	10 / 15:09	9 normal/no significant signs	
		12-Sep-89 11:54	11 / 07:45	9 normal/no significant signs	
		12-Sep-89 11:59	11 / 11:19	9 inactive, slight uncoordinated, moderate	
		12-Sep-89 12:05	11 / 14:50	9 uncoordinated, slight	
		12-Sep-89 12:11	12 / 07:51	9 normal/no significant signs	
		12-Sep-89 12:15	12 / 11:13	9 inactive, slight	
		12-Sep-89 12:25	12 / 14:12	9 uncoordinated, slight	
		12-Sep-89 12:30	13 / 08:35	9 inactive, moderate hunched posture, moderate	
		12-Sep-89 12:38	13 / 10:01	9 lack of appetite, severe inactive, moderate	
		12-Sep-89 12:43	13 / 14:25	9 hunched posture, slight lack of appetite, severe	
		12-Sep-89 12:52	14 / 07:41	9 hunched posture, moderate increased respiration, slight	
		12-Sep-89 12:57	14 / 09:31	9 disoriented, slight uncoordinated, slight	
				9 disoriented, slight inactive, moderate	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 38010F  
 Data Listing by Animal  
 Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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SUB-ACUTE/

Cage #	Animal Sex/group Date and Number /Subgroup Data was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments
39	89F00392 F/ 8/4	12-Sep-89 12:57 12-Sep-89 13:04	14 / 09:31 9 hunched posture, moderate 14 / 14:05 9 disoriented, slight inactive, slight
40	89F00393 F/ 8/4	12-Sep-89 13:09 12-Sep-89 07:58 12-Sep-89 08:08 12-Sep-89 08:17 12-Sep-89 08:24 12-Sep-89 08:30 12-Sep-89 08:34 12-Sep-89 08:42 12-Sep-89 08:57	15 / 07:26 9 normal/no significant signs 1 / 08:40 9 apprehensive, moderate 1 / 11:24 9 hunched posture, slight 1 / 14:32 9 normal/no significant signs 2 / 07:59 9 apprehensive, moderate 2 / 11:42 9 normal/no significant signs 2 / 14:43 9 normal/no significant signs 3 / 08:39 9 apprehensive, moderate hunched posture, slight 3 / 11:58 9 hunched posture, slight red eyes, slight, both eyes increased respiration, slight disoriented, moderate
		12-Sep-89 09:07 12-Sep-89 09:21 12-Sep-89 09:25	3 / 15:04 9 normal/no significant signs 4 / 09:02 9 normal/no significant signs 4 / 10:42 9 increased respiration, slight inactive, slight
		12-Sep-89 09:31 12-Sep-89 09:34	4 / 16:18 9 apprehensive, slight 5 / 07:33 9 apprehensive, slight inactive, moderate
		12-Sep-89 09:47 12-Sep-89 09:53	5 / 11:43 9 apprehensive, moderate inactive, slight 5 / 14:28 9 apprehensive, moderate inactive, slight
		12-Sep-89 10:02	hunched posture, slight inactive, moderate
		12-Sep-89 10:07	hunched posture, moderate increased respiration, moderate inactive, moderate
		12-Sep-89 10:16	hunched posture, moderate increased respiration, moderate hunched posture, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group Number /Subgroup	Date	Time Data was Entered	Time Study Day/time Oper Data was Taken	Clinical signs / Comments
40	89F00393	F / 8/4	12-Sep-89 10:16	6 / 16:30	9 increased respiration, moderate inactive, moderate
		12-Sep-89 10:28	7 / 08:00	9 increased respiration, slight inactive, slight disoriented, slight apprehensive, moderate	
		12-Sep-89 10:37	7 / 11:26	9 increased respiration, moderate disoriented, moderate hunched posture, slight tremors, moderate	
		12-Sep-89 10:55	7 / 14:32	9 normal/no significant signs	
		12-Sep-89 11:00	8 / 08:16	9 tremors, moderate uncoordinated, slight	
		12-Sep-89 11:06	8 / 10:44	9 tremors, moderate uncoordinated, moderate	
		12-Sep-89 11:12	8 / 14:19	9 apprehensive, moderate hunched posture, slight	
		12-Sep-89 11:17	9 / 07:41	9 hunched posture, moderate inactive, slight tremors, moderate	
		12-Sep-89 11:27	9 / 11:00	9 hunched posture, moderate inactive, slight	
		12-Sep-89 11:33	9 / 14:53	9 increased respiration, slight inactive, slight	
		12-Sep-89 11:38	10 / 07:45	9 increased respiration, slight uncoordinated, moderate	
		12-Sep-89 11:45	10 / 10:43	9 disoriented, slight	
		12-Sep-89 11:49	10 / 15:11	9 normal/no significant signs	
		12-Sep-89 11:54	11 / 07:55	9 normal/no significant signs apprehensive, slight	
		12-Sep-89 11:59	11 / 11:30	9 inactive, slight hunched posture, moderate increased respiration, moderate	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010F  
 Data Listing by Animal  
 Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date	Time	Study Day/time	Oper	Clinical signs / Comments
#	Number /Subgroup	Data was Entered	Data was Taken	#		
40	89F00393	F / 8/4				
		12-Sep-89	12:06	11 / 14:57	9	inactive, slight
		12-Sep-89	12:11	12 / 07:58	9	tremors, slight
						uncoordinated, slight
		12-Sep-89	12:16	12 / 11:44	9	hunched posture, slight
						hunched posture, slight
		12-Sep-89	12:25	12 / 14:16	9	increased respiration, slight
						hunched posture, slight
						increased respiration, slight
						tremors, slight
						apprehensive, slight
		12-Sep-89	12:31	13 / 08:38	9	inactive, slight
						increased respiration, slight
		12-Sep-89	12:39	13 / 10:08	9	apprehensive, slight
		12-Sep-89	12:43	13 / 14:27	9	normal/no significant signs
						apprehensive, moderate
		12-Sep-89	12:53	14 / 07:48	9	increased respiration, slight
						increased respiration, moderate
						wide-legged stance, moderate
		12-Sep-89	12:58	14 / 09:40	9	inactive, slight
						increased respiration, moderate
						wide-legged stance, moderate
						disoriented, slight
						tremors, slight
		12-Sep-89	13:04	14 / 14:10	9	wide-legged stance, moderate
						inactive, slight
		12-Sep-89	13:09	15 / 07:32	9	increased respiration, moderate
						hunched posture, moderate
						dilated pupils, moderate
		08-Aug-89	14:24	1 / 10:50	9	normal/no significant signs
		08-Aug-89	14:44	1 / 12:28	9	apprehensive, moderate
						inactive, moderate
						hunched posture, moderate
						increased respiration, slight
		08-Aug-89	14:55	1 / 16:24	9	hunched posture, slight
		08-Aug-89	15:00	2 / 08:39	9	increased respiration, moderate

41 89F00349 F / 9/1



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date and Time Entered	Study Day/time	Oper Data was Taken	#	Clinical signs / Comments
41	89F00349	F / 9/1	08-Aug-89	15:12	2 / 10:02	9 inactive, moderate hunched posture, moderate increased respiration, moderate inactive, slight apprehensive, slight inactive, slight hunched posture, slight inactive, slight hunched posture, slight increased respiration, slight apprehensive, slight normal/no significant signs normal/no significant signs increased respiration, slight dilated pupils, moderate disoriented, moderate dilated pupils, moderate hunched posture, slight normal/no significant signs inactive, slight hunched posture, slight increased respiration, slight normal/no significant signs normal/no significant signs inactive, slight normal/no significant signs apprehensive, slight inactive, slight disoriented, moderate normal/no significant signs normal/no significant signs disoriented, moderate normal/no significant signs normal/no significant signs
		08-Aug-89	15:20	2 / 14:11	9	
		08-Aug-89	15:31	3 / 08:02	9	
		08-Aug-89	15:44	3 / 10:19	9	
		10-Aug-89	09:34	3 / 15:24	9	
		10-Aug-89	09:45	4 / 08:16	9	
		10-Aug-89	09:53	4 / 11:05	9	
		10-Aug-89	10:03	4 / 14:38	9	
		10-Aug-89	10:07	5 / 08:05	9	
		10-Aug-89	10:12	5 / 11:54	9	
		10-Aug-89	10:16	5 / 17:03	9	
		10-Aug-89	13:03	6 / 08:22	9	
		10-Aug-89	13:08	6 / 11:02	9	
		10-Aug-89	13:12	6 / 15:53	9	
		10-Aug-89	13:18	7 / 08:37	9	
		10-Aug-89	13:28	7 / 10:15	9	
		10-Aug-89	14:04	7 / 14:45	9	
		10-Aug-89	14:10	8 / 08:20	9	
		10-Aug-89	14:16	8 / 10:05	9	
		10-Aug-89	14:23	8 / 14:06	9	
		10-Aug-89	14:29	9 / 07:44	9	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
41 89F00349	F / 9/1	10-Aug-89 14:37	9 / 10:09	9	disoriented, slight
		10-Aug-89 14:49	9 / 14:44	9	disoriented, moderate
		10-Aug-89 15:03	10 / 07:25	9	hunched posture, slight
					disoriented, moderate
					hunched posture, slight
					tremors, slight
		10-Aug-89 15:09	10 / 10:12	9	normal/no significant signs
		10-Aug-89 15:14	10 / 14:19	9	normal/no significant signs
		10-Aug-89 15:19	11 / 07:56	9	normal/no significant signs
		10-Aug-89 15:25	11 / 10:23	9	disoriented, moderate
					hunched posture, moderate
					uncoordinated, slight
		10-Aug-89 15:29	11 / 14:23	9	normal/no significant signs
		14-Aug-89 09:16	12 / 08:07	9	normal/no significant signs
		14-Aug-89 09:22	12 / 09:38	9	inactive, slight
		14-Aug-89 09:27	12 / 15:44	9	normal/no significant signs
		14-Aug-89 09:31	13 / 06:23	9	normal/no significant signs
		14-Aug-89 09:37	13 / 10:15	9	normal/no significant signs
		14-Aug-89 09:42	13 / 13:55	9	inactive, moderate
		14-Aug-89 09:48	14 / 08:11	9	disoriented, slight
		14-Aug-89 10:00	14 / 10:39	9	disoriented, slight
					dilated pupils, moderate
		14-Aug-89 10:05	14 / 16:06	9	normal/no significant signs
		14-Aug-89 10:09	15 / 08:25	9	normal/no significant signs
		08-Aug-89 14:25	1 / 10:22	9	normal/no significant signs
		08-Aug-89 14:44	1 / 11:22	9	disoriented, moderate
					uncoordinated, moderate
		08-Aug-89 14:55	1 / 16:14	9	uncoordinated, slight
					uncoordinated, slight
		08-Aug-89 15:00	2 / 08:30	9	normal/no significant signs
		08-Aug-89 15:12	2 / 09:36	9	disoriented, moderate
					uncoordinated, slight
		08-Aug-89 15:21	2 / 14:03	9	inactive, slight
					dilated pupils, moderate
		08-Aug-89 15:31	3 / 07:35	9	dilated pupils, slight
42 19F00340	F / 9/1				

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010F  
 Date Listing by Animal  
 Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group Date	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
42 89F00340	F/ 9/1	08-Aug-89 15:45	3 / 09:53	9 dilated pupils, slight disoriented, slight inactive, slight hunched posture, slight normal/no significant signs dilated pupils, slight dilated pupils, moderate inactive, slight increased respiration, slight dilated pupils, slight inactive, slight increased respiration, slight irritable, moderate normal/no significant signs inactive, slight normal/no significant signs normal/no significant signs inactive, slight increased respiration, slight normal/no significant signs disoriented, slight uncoordinated, slight disoriented, slight inactive, slight hunched posture, moderate mucous on nares, slight dilated pupils, moderate disoriented, moderate wide-legged stance, slight dilated pupils, slight disoriented, slight wide-legged stance, slight mucous on nares, slight disoriented, moderate tremors, slight
		10-Aug-89 09:34	3 / 15:18	9
		10-Aug-89 09:45	4 / 07:48	9
		10-Aug-89 09:54	4 / 10:37	9
		10-Aug-89 10:03	4 / 14:32	9
		10-Aug-89 10:07	5 / 08:03	9
		10-Aug-89 10:12	5 / 11:13	9
		10-Aug-89 10:16	5 / 16:55	9
		10-Aug-89 13:03	6 / 08:17	9
		10-Aug-89 13:08	6 / 10:40	9
		10-Aug-89 13:12	6 / 15:49	9
		10-Aug-89 13:18	7 / 07:29	9
		10-Aug-89 13:29	7 / 09:47	9
		10-Aug-89 14:05	7 / 14:37	9
		10-Aug-89 14:11	8 / 08:12	9
		10-Aug-89 14:17	8 / 09:45	9

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SEAV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010F  
Data Listing by Animal  
Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date and Time Data Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
42 89F00340	F/ 9/1	10-Aug-89 14:24	8 / 14:02	9 dilated pupils, slight wide-legged stance, slight increased respiration, slight normal/no significant signs
		10-Aug-89 14:29	9 / 07:33	9 normal/no significant signs
		10-Aug-89 14:41	9 / 09:47	9 mucous on nares, slight dilated pupils, slight disoriented, slight increased respiration, slight mucous on nares, slight wide-legged stance, slight tremors, slight
		10-Aug-89 14:49	9 / 14:36	9 mucous on nares, slight wide-legged stance, slight
		10-Aug-89 15:04	10 / 07:14	9 wide-legged stance, slight tremors, slight
		10-Aug-89 15:10	10 / 09:50	9 inactive, slight
		10-Aug-89 15:14	10 / 14:09	9 normal/no significant signs
		10-Aug-89 15:19	11 / 07:32	9 normal/no significant signs
		10-Aug-89 15:26	11 / 09:41	9 disoriented, slight wide-legged stance, slight tremors, moderate
		10-Aug-89 15:29	11 / 14:12	9 normal/no significant signs
		14-Aug-89 09:16	12 / 07:58	9 normal/no significant signs
		14-Aug-89 09:23	12 / 09:17	9 inactive, slight
		14-Aug-89 09:27	12 / 15:38	9 normal/no significant signs
		14-Aug-89 09:31	13 / 06:15	9 normal/no significant signs
		14-Aug-89 09:37	13 / 09:45	9 dilated pupils, moderate increased respiration, slight
		14-Aug-89 09:42	13 / 13:45	9 increased respiration, slight inactive, slight
		14-Aug-89 09:48	14 / 08:03	9 mucous on nares, slight wide-legged stance, slight
		14-Aug-89 10:01	14 / 10:08	9 disoriented, slight increased respiration, slight hunched posture, slight tremors, slight
		14-Aug-89 10:05	14 / 16:02	9 normal/no significant signs
		14-Aug-89 10:09	15 / 07:24	9 normal/no significant signs
		14-Aug-89 10:19	1 / 09:35	9 normal/no significant signs

43 89F00356 F/ 9/2

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/Group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
43	89F00356 F/ 9/2	14-Aug-89 10:46	1 / 10:47	9 dilated pupils, moderate
		14-Aug-89 10:54	1 / 14:10	9 dilated pupils, moderate
		23-Aug-89 14:28	2 / 08:09	9 dilated pupils, moderate
				9 disoriented, slight
		23-Aug-89 14:39	2 / 10:34	9 dilated pupils, moderate
				9 disoriented, slight
				9 lacrimation both eyes, slight, both eyes
		23-Aug-89 14:44	2 / 15:29	9 dilated pupils, slight
		23-Aug-89 14:47	3 / 08:20	9 normal/no significant signs
		23-Aug-89 14:55	3 / 11:27	9 dilated pupils, moderate
				9 disoriented, slight
		23-Aug-89 15:01	3 / 15:08	9 dilated pupils, moderate
		23-Aug-89 15:03	4 / 08:13	9 normal/no significant signs
		23-Aug-89 15:08	4 / 12:34	9 normal/no significant signs
		23-Aug-89 15:12	4 / 17:08	9 normal/no significant signs
		23-Aug-89 15:16	5 / 08:28	9 normal/no significant signs
		23-Aug-89 15:19	5 / 11:24	9 normal/no significant signs
		23-Aug-89 15:23	5 / 15:56	9 normal/no significant signs
		02-Oct-89 09:23	6 / 08:46	4 normal/no significant signs
		02-Oct-89 09:35	6 / 10:30	4 dilated pupils, slight
				4 lacrimation, moderate
				4 disoriented, slight
		02-Oct-89 09:47	6 / 14:49	4 wide-legged stance, moderate
				4 disoriented, moderate
		07-Sep-89 13:09	7 / 08:27	9 dilated pupils, moderate
				9 disoriented, slight
				9 wide-legged stance, slight
				9 hyperactive, slight
		07-Sep-89 13:23	7 / 10:19	9 dilated pupils, slight
				9 disoriented, slight
		07-Sep-89 13:32	7 / 14:12	9 dilated pupils, slight
				9 disoriented, slight
		07-Sep-89 13:39	8 / 07:50	9 dilated pupils, slight
				9 disoriented, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
44	89F00367 F/ 9/3	11-Sep-89	09:39	2 / 14:05	9 hunched posture, slight inactive, slight
		11-Sep-89	09:45	3 / 07:00	9 normal/no significant signs
		11-Sep-89	09:52	3 / 10:58	9 inactive, slight
		11-Sep-89	09:56	3 / 14:29	9 normal/no significant signs
		11-Sep-89	10:03	4 / 08:42	9 normal/no significant signs
		11-Sep-89	10:15	4 / 11:07	9 inactive, slight
		11-Sep-89	10:21	4 / 14:50	9 normal/no significant signs
		11-Sep-89	10:25	5 / 08:30	9 normal/no significant signs
		11-Sep-89	10:35	5 / 10:24	9 normal/no significant signs
		11-Sep-89	10:39	5 / 16:02	9 normal/no significant signs
		11-Sep-89	10:44	6 / 07:18	9 normal/no significant signs
		11-Sep-89	10:50	6 / 10:06	9 increased respiratory depth, slight
		11-Sep-89	10:58	6 / 14:13	9 normal/no significant signs
		11-Sep-89	11:06	7 / 07:53	9 normal/no significant signs
		11-Sep-89	11:12	7 / 11:30	9 disoriented, slight inactive, slight
		11-Sep-89	11:19	7 / 16:19	9 inactive, moderate
		11-Sep-89	11:23	8 / 07:36	9 uncoordinated, slight
		11-Sep-89	11:29	8 / 10:51	9 inactive, slight
		11-Sep-89	11:53	8 / 14:17	9 inactive, slight
		11-Sep-89	12:05	9 / 08:03	9 normal/no significant signs
		11-Sep-89	12:11	9 / 10:15	9 uncoordinated, slight disoriented, slight
		11-Sep-89	12:18	9 / 14:04	9 apprehensive, slight
		11-Sep-89	12:26	10 / 07:23	9 normal/no significant signs
		11-Sep-89	12:32	10 / 09:58	9 hunched posture, slight tremors, moderate
		11-Sep-89	12:37	10 / 14:41	9 normal/no significant signs
		11-Sep-89	12:52	11 / 07:17	9 tremors, slight
		11-Sep-89	12:59	11 / 09:33	9 normal/no significant signs
		11-Sep-89	13:04	11 / 15:00	9 normal/no significant signs
		11-Sep-89	13:08	12 / 07:34	9 normal/no significant signs
		11-Sep-89	13:13	12 / 09:41	9 hunched posture, slight
		11-Sep-89	13:24	12 / 14:42	9 normal/no significant signs
		11-Sep-89	13:29	13 / 07:38	9 normal/no significant signs

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments
44	88F00367 F / 9/3	11-Sep-89 13:34	13 / 09:15	9 hunched posture, slight
		11-Sep-89 13:41	13 / 14:04	9 normal/no significant signs
		11-Sep-89 13:52	14 / 08:14	9 disoriented, slight
		11-Sep-89 13:58	14 / 09:53	9 normal/no significant signs
		11-Sep-89 14:06	14 / 14:11	9 normal/no significant signs
		11-Sep-89 14:13	15 / 07:25	9 normal/no significant signs
45	89F00384 F / 9/4	12-Sep-89 07:59	1 / 08:35	9 stained nares, moderate
		12-Sep-89 08:08	1 / 11:19	9 apprehensive, slight
				9 stained nares, moderate
				9 dilated pupils, moderate
				9 aggressive, slight
				9 increased respiration, slight
				9 stained nares, moderate
				9 aggressive, slight
				9 increased respiration, slight
				9 stained nares, moderate
				9 aggressive, slight
				9 apprehensive, slight
				9 stained nares, moderate
				9 aggressive, slight
				9 apprehensive, slight
				9 stained nares, moderate
				9 disoriented, slight
				9 stained nares, moderate
				9 disoriented, moderate
				9 stained nares, moderate
				9 stained nares, moderate
				9 stained nares, moderate
				9 stained nares, moderate
				9 stained nares, moderate
				9 apprehensive, slight
				9 dilated pupils, slight
				9 increased respiration, slight
				9 inactive, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses		Study Number: 88010F Data Listing by Animal Study Start Date: 30-May-89		PRINTED: 26-Oct-89 Page: 101		SUB-ACUTE/	
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments						
45 89F00384 F/ 9/4		12-Sep-89 09:54	5 / 14:27	9	stained nares, moderate						
		12-Sep-89 10:02	6 / 08:19	9	normal/no significant signs						
		12-Sep-89 10:08	6 / 11:40	9	disoriented, moderate						
					inactive, slight						
		12-Sep-89 10:16	6 / 16:29	9	normal/no significant signs						
		12-Sep-89 10:28	7 / 07:57	9	disoriented, moderate						
		12-Sep-89 10:38	7 / 11:26	9	disoriented, moderate						
					stained nares, moderate						
					dilated pupils, moderate						
					aggressive, slight						
		12-Sep-89 10:55	7 / 14:31	9	normal/no significant signs						
		12-Sep-89 11:00	8 / 08:16	9	normal/no significant signs						
		12-Sep-89 11:06	8 / 10:37	9	disoriented, slight						
					uncoordinated, slight						
		12-Sep-89 11:12	8 / 14:18	9	disoriented, slight						
		12-Sep-89 11:17	9 / 07:37	9	uncoordinated, slight						
					disoriented, slight						
					uncoordinated, slight						
		12-Sep-89 11:27	9 / 10:55	9	stained nares, moderate						
					disoriented, slight						
	12-Sep-89 11:33	9 / 14:52	9	increased respiration, slight							
	12-Sep-89 11:39	10 / 07:42	9	normal/no significant signs							
				disoriented, slight							
				uncoordinated, slight							
				hunched posture, slight							
	12-Sep-89 11:46	10 / 10:37	9	normal/no significant signs							
	12-Sep-89 11:49	10 / 15:10	9	increased water consumption, slight							
	12-Sep-89 11:54	11 / 07:53	9	normal/no significant signs							
	12-Sep-89 11:59	11 / 11:30	9	normal/no significant signs							
	12-Sep-89 12:06	11 / 14:55	9	normal/no significant signs							
	12-Sep-89 12:11	12 / 07:57	9	normal/no significant signs							
	12-Sep-89 12:16	12 / 11:30	9	disoriented, slight							
				uncoordinated, slight							
				hunched posture, slight							
	12-Sep-89 12:26	12 / 14:15	9	disoriented, slight							

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 RABBIT/NEW ZEALAND WHITE				Raw Data Listings of Clinical Signs Without Masses		PRINTED: 26-Oct-89 Page: 102	
				Study Number: 88010F			
				Data Listing by Animal			
				Study Start Date: 30-May-89		SUB-ACUTE/	

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Date Listing by Animal

Study Start Date: 30-May-89

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Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	#	Clinical signs / Comments
46	89F00350	F/10/1			
		10-Aug-89 10:04	4 / 14:38	9	dilated pupils, moderate
		10-Aug-89 10:07	5 / 08:08	9	normal/no significant signs
		10-Aug-89 10:12	5 / 11:59	9	normal/no significant signs
		10-Aug-89 10:17	5 / 17:03	9	normal/no significant signs
		10-Aug-89 13:04	6 / 08:22	9	normal/no significant signs
		10-Aug-89 13:08	6 / 11:06	9	normal/no significant signs
		10-Aug-89 13:12	6 / 15:53	9	normal/no significant signs
		10-Aug-89 13:18	7 / 08:37	9	normal/no significant signs
		10-Aug-89 13:29	7 / 10:24	9	disoriented, slight hunched posture, slight
		10-Aug-89 14:05	7 / 14:46	9	wide-legged stance, moderate increased respiratory depth, moderate disoriented, moderate dilated pupils, slight
		10-Aug-89 14:11	8 / 08:21	9	disoriented, slight dilated pupils, slight
		10-Aug-89 14:17	8 / 10:04	9	disoriented, moderate dilated pupils, moderate hunched posture, slight
		10-Aug-89 14:24	8 / 14:06	9	disoriented, moderate dilated pupils, moderate hunched posture, slight
		10-Aug-89 14:30	9 / 07:45	9	increased respiration, slight disoriented, slight dilated pupils, moderate hunched posture, slight
		10-Aug-89 14:42	9 / 10:13	9	increased respiration, moderate disoriented, moderate dilated pupils, slight hunched posture, moderate
		10-Aug-89 14:50	9 / 14:44	9	increased respiration, slight disoriented, moderate dilated pupils, slight hunched posture, slight
		10-Aug-89 15:04	10 / 07:25	9	disoriented, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Page: 104

SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
46	89F00350	F/10/1			
		10-Aug-89	15:04	10 / 07:25	9 wide-legged stance, moderate
		10-Aug-89	15:10	10 / 09:50	9 normal/no significant signs
		10-Aug-89	15:14	10 / 14:19	9 normal/no significant signs
		10-Aug-89	15:19	11 / 07:57	9 increased respiratory depth, moderate dilated pupils, moderate hunched posture, slight
		10-Aug-89	15:26	11 / 10:30	9 increased respiratory depth, moderate dilated pupils, moderate hunched posture, slight increased respiration, slight
		10-Aug-89	15:30	11 / 14:24	9 wide-legged stance, moderate
		14-Aug-89	09:16	12 / 08:08	9 hunched posture, slight
		14-Aug-89	09:23	12 / 09:42	9 normal/no significant signs
		14-Aug-89	09:28	12 / 15:44	9 increased respiration, slight dilated pupils, slight
		14-Aug-89	09:31	13 / 06:24	9 normal/no significant signs
		14-Aug-89	09:37	13 / 10:21	9 normal/no significant signs dilated pupils, slight
		14-Aug-89	09:43	13 / 13:56	9 increased respiration, slight
		14-Aug-89	09:49	14 / 08:12	9 normal/no significant signs
		14-Aug-89	10:01	14 / 10:42	9 hunched posture, slight wide-legged stance, slight disoriented, moderate
		14-Aug-89	10:06	14 / 16:07	9 uncoordinated, slight
		14-Aug-89	10:10	15 / 08:30	9 disoriented, slight
		14-Aug-89	10:19	1 / 08:30	9 normal/no significant signs
		14-Aug-89	10:46	1 / 10:25	9 normal/no significant signs
		14-Aug-89	10:54	1 / 14:04	9 normal/no significant signs
		23-Aug-89	14:28	2 / 08:06	9 normal/no significant signs
		23-Aug-89	14:39	2 / 10:20	9 disoriented, slight
		23-Aug-89	14:44	2 / 15:25	9 normal/no significant signs
		23-Aug-89	14:47	3 / 08:16	9 normal/no significant signs
		23-Aug-89	14:56	3 / 11:10	9 disoriented, slight dilated pupils, slight
47	89F00351	F/10/2			

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH				Raw Data Listings of Clinical Signs Without Masses				PRINTED: 26-Oct-89	
DIV OF RES SUPP, PATH SERV GP				Study Number: 88010F				Page: 105	
PRESIDIO OF SAN FRANCISCO, CA 94129				Data Listing by Animal				SUB-ACUTE/	
RABBIT/NEW ZEALAND WHITE				Study Start Date: 30-May-89					
Cage #	Animal Sex/group	Date and Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments					
47	89F00351	F/10/2	23-Aug-89 15:01	3 / 14:45	9	dilated pupils, slight inactive, slight			
		23-Aug-89 15:03	4 / 08:08	9	normal/no significant signs				
		23-Aug-89 15:08	4 / 12:15	9	inactive, slight				
		23-Aug-89 15:12	4 / 17:05	9	normal/no significant signs				
		23-Aug-89 15:15	5 / 08:23	9	normal/no significant signs				
		23-Aug-89 15:19	5 / 11:08	9	normal/no significant signs				
		23-Aug-89 15:24	5 / 15:54	9	normal/no significant signs				
		02-Oct-89 09:24	6 / 08:42	4	disoriented, slight inactive, slight				
		02-Oct-89 09:36	6 / 10:21	4	hunched posture, moderate wide-legged stance, slight				
		02-Oct-89 09:47	6 / 14:47	4	disoriented, slight				
		07-Sep-89 13:10	7 / 08:23	9	hunched posture, slight				
		07-Sep-89 13:24	7 / 10:09	9	disoriented, slight				
		07-Sep-89 13:33	7 / 14:07	9	dilated pupils, moderate hunched posture, moderate				
		07-Sep-89 13:40	8 / 06:53	9	increased respiration, slight				
		07-Sep-89 13:48	8 / 10:14	9	increased respiration, slight				
		07-Sep-89 13:55	8 / 14:45	9	hunched posture, slight				
		07-Sep-89 13:57	9 / 07:28	9	normal/no significant signs				
		07-Sep-89 14:25	9 / 10:19	9	normal/no significant signs				
		07-Sep-89 14:29	9 / 14:20	9	inactive, slight				
		07-Sep-89 14:38	10 / 07:59	9	normal/no significant signs				
		07-Sep-89 14:46	10 / 10:32	9	hunched posture, slight				
					disoriented, slight				
					inactive, slight				
		07-Sep-89 14:52	10 / 14:25	9	normal/no significant signs				
		07-Sep-89 14:57	11 / 08:10	9	normal/no significant signs				
		07-Sep-89 15:04	11 / 09:44	9	inactive, moderate				
		07-Sep-89 15:10	11 / 15:45	9	inactive, moderate				
		07-Sep-89 15:21	12 / 06:25	9	inactive, moderate				

Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
Study Number: 88010F  
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Cage #	Animal Sex/group	Date Entered	Time Data was Taken	Study Day/time	Oper	Clinical signs / Comments
47	89F00351	F/10/2	07-Sep-89 15:27	12 / 10:21	9	inactive, moderate
			07-Sep-89 15:33	12 / 13:57	9	increased respiration, slight
			07-Sep-89 15:37	13 / 08:12	9	inactive, moderate
			07-Sep-89 15:44	13 / 11:02	9	increased respiration, slight
			07-Sep-89 15:49	13 / 16:09	9	aggressive, moderate
			07-Sep-89 15:53	14 / 08:20	9	pulled catheter
			07-Sep-89 16:00	14 / 11:17	9	disoriented, slight
			07-Sep-89 16:05	14 / 14:05	9	inactive, slight
			07-Sep-89 16:08	15 / 06:41	9	not drinking, severe
			11-Sep-89 08:13	1 / 08:47	9	normal/no significant signs
			11-Sep-89 08:17	1 / 10:47	9	hunched posture, slight
						disoriented, slight
			11-Sep-89 09:12	1 / 14:10	9	increased respiration, moderate
			11-Sep-89 09:18	2 / 08:23	9	hunched posture, moderate
			11-Sep-89 09:31	2 / 10:55	9	normal/no significant signs
						dilated pupils, moderate
						increased respiration, moderate
			11-Sep-89 09:40	2 / 14:15	9	hunched posture, slight
						disoriented, moderate
						dilated pupils, moderate
						increased respiration, moderate
						disoriented, slight
						exophthalmus, slight
			11-Sep-89 09:48	3 / 08:11	9	wide-legged stance, moderate
						dilated pupils, moderate
						increased respiration, slight
						disoriented, slight

48 89F00373 F/10/3

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

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Cage Animal Sex/Group Date and Time Study Day/time Oper

# Number /Subgroup Data was Entered Data was Taken #

Clinical signs / Comments

48	89F00373	F	10/3	11-Sep-89	09:48	3 / 08:11	9	wide-legged stance, moderate
				11-Sep-89	09:52	3 / 11:15	9	dilated pupils, slight
				11-Sep-89	09:56	3 / 14:33	9	increased respiration, slight
				11-Sep-89	10:03	4 / 08:37	9	increased respiration, moderate
								dilated pupils, moderate
								disoriented, slight
								wide-legged stance, moderate
				11-Sep-89	10:16	4 / 11:23	9	inactive, slight
				11-Sep-89	10:21	4 / 14:54	9	normal/no significant signs
				11-Sep-89	10:25	5 / 08:40	9	normal/no significant signs
				11-Sep-89	10:35	5 / 10:13	9	inactive, slight
				11-Sep-89	10:39	5 / 16:08	9	uncoordinated, slight
				11-Sep-89	10:44	6 / 07:24	9	normal/no significant signs
				11-Sep-89	10:50	6 / 11:16	9	increased respiration, slight
								uncoordinated, moderate
				11-Sep-89	10:59	6 / 14:17	9	increased respiration, slight
								disoriented, slight
				11-Sep-89	11:06	7 / 08:04	9	increased respiration, slight
				11-Sep-89	11:08	7 / 11:30	9	hunched posture, slight
								uncoordinated, slight
				11-Sep-89	11:19	7 / 16:21	9	normal/no significant signs
				11-Sep-89	11:24	8 / 07:42	9	dilated pupils, moderate
								disoriented, slight
				11-Sep-89	11:30	8 / 11:10	9	dilated pupils, moderate
								disoriented, moderate
								startles, slight
								aggressive, slight
								tremors, slight
				11-Sep-89	11:53	8 / 14:20	9	dilated pupils, moderate
				11-Sep-89	12:05	9 / 08:10	9	dilated pupils, moderate
				11-Sep-89	12:12	9 / 10:04	9	dilated pupils, moderate
								disoriented, moderate
								startles, slight
								tremors, slight
				11-Sep-89	12:19	9 / 14:09	9	dilated pupils, moderate

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
Page: 108

SUB-ACUTE/

Cage #	Animal Sex/group Number /Subgroup	Date Data was Entered	Time Data was Entered	Study Day/time Oper Data was Taken	Clinical signs / Comments	
48	89F00373	F/10/3	11-Sep-89	12:19	9 / 14:09	9 disoriented, slight tremors, moderate
			11-Sep-89	12:26	10 / 07:27	9 normal/no significant signs
			11-Sep-89	12:33	10 / 10:27	9 disoriented, slight aggressive, slight tremors, moderate
			11-Sep-89	12:37	10 / 14:45	9 increased respiration, slight
			11-Sep-89	12:52	11 / 07:26	9 normal/no significant signs
						9 dilated pupils, slight
						9 increased respiration, slight
						9 hunched posture, slight
						9 inactive, moderate
						9 normal/no significant signs
						9 hunched posture, slight
						9 hunched posture, slight
49	89F00364	F/10/3	11-Sep-89	13:00	11 / 09:48	9 increased respiration, moderate
			11-Sep-89	13:04	11 / 15:03	9 normal/no significant signs
			11-Sep-89	13:08	12 / 07:39	9 hunched posture, slight
			11-Sep-89	13:14	12 / 10:18	9 hunched posture, slight
						9 increased respiration, moderate
						9 inactive, slight
			11-Sep-89	13:25	12 / 14:46	9 hunched posture, slight
						9 increased respiration, slight
			11-Sep-89	13:29	13 / 07:45	9 normal/no significant signs
			11-Sep-89	13:34	13 / 10:44	9 normal/no significant signs
			11-Sep-89	13:41	13 / 14:08	9 hunched posture, slight
						9 inactive, slight
			11-Sep-89	13:53	14 / 08:23	9 normal/no significant signs
			11-Sep-89	13:59	14 / 09:49	9 increased respiration, slight
			11-Sep-89	14:06	14 / 14:16	9 increased respiration, slight
			11-Sep-89	14:14	15 / 07:31	9 increased respiration, slight
						9 dilated pupils, moderate
			11-Sep-89	08:13	1 / 08:41	9 apprehensive, moderate
			11-Sep-89	08:18	1 / 10:28	9 aggressive, slight
						9 disoriented, moderate
			11-Sep-89	09:12	1 / 14:01	9 aggressive, slight
						9 inactive, slight
			11-Sep-89	09:19	2 / 08:12	9 aggressive, moderate
						9 apprehensive, slight



## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV CP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses  
 Study Number: 88010F  
 Date Listing by Animal  
 Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
 Page: 109  
 SUB-ACUTE/

Cage #	Animal Sex/group	Date Data was Entered	Time Data was Taken	Study Day/time Oper	Clinical signs / Comments
49	89F00364 F/10/3	11-Sep-89 09:19	2 / 08:12	9	Increased respiration, moderate
		11-Sep-89 09:32	2 / 10:39	9	Increased respiration, moderate disoriented, moderate
		11-Sep-89 09:40	2 / 14:01	9	Increased respiration, moderate aggressive, moderate
		11-Sep-89 09:48	3 / 06:52	9	Increased respiration, slight
		11-Sep-89 09:52	3 / 10:45	9	Increased respiration, slight
		11-Sep-89 09:57	3 / 14:28	9	Inactive, slight
		11-Sep-89 10:04	4 / 08:18	9	Apprehensive, moderate disoriented, slight
		11-Sep-89 10:16	4 / 11:08	9	Apprehensive, slight
		11-Sep-89 10:21	4 / 14:48	9	Normal/no significant signs
		11-Sep-89 10:25	5 / 08:25	9	Apprehensive, slight
		11-Sep-89 10:36	5 / 10:07	9	Apprehensive, slight
		11-Sep-89 10:40	5 / 16:01	9	Apprehensive, slight
		11-Sep-89 10:45	6 / 07:16	9	Apprehensive, slight
		11-Sep-89 10:50	6 / 10:57	9	Inactive, slight Increased respiration, moderate
		11-Sep-89 10:59	6 / 14:11	9	Apprehensive, slight
		11-Sep-89 11:06	7 / 07:50	9	Apprehensive, slight
		11-Sep-89 11:08	7 / 11:18	9	Apprehensive, slight Inactive, slight
		11-Sep-89 11:19	7 / 16:15	9	Normal/no significant signs
		11-Sep-89 11:24	8 / 07:25	9	Normal/no significant signs
		11-Sep-89 11:30	8 / 10:45	9	Increased respiration, moderate hunched posture, slight
		11-Sep-89 11:54	8 / 14:15	9	Increased respiration, slight
		11-Sep-89 12:05	9 / 08:01	9	Dilated pupils, moderate
		11-Sep-89 12:12	9 / 09:36	9	Increased respiration, moderate hunched posture, slight
		11-Sep-89 12:19	9 / 14:00	9	Inactive, slight Increased respiration, slight Inactive, slight Dilated pupils, slight

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs Without Masses

Study Number: 88010F

Data Listing by Animal

Study Start Date: 30-May-89

PRINTED: 26-Oct-89  
Page: 110

SUB-ACUTE/

Cage Animal Sex/group Date and Time Study Day/time Oper

# Number /Subgroup Data Was Entered Data Was Taken # Clinical signs / Comments

49	89F00364	F/10/3	11-Sep-89 12:26	10 / 07:22	9	Increased respiration, slight
			11-Sep-89 12:33	10 / 09:46	9	Increased respiration, moderate
						hunched posture, slight
						dilated pupils, moderate
						inactive, slight
			11-Sep-89 12:38	10 / 14:40	9	Increased respiration, slight
						dilated pupils, slight
			11-Sep-89 12:53	11 / 07:15	9	normal/no significant signs
			11-Sep-89 13:00	11 / 08:51	9	normal/no significant signs
			11-Sep-89 13:04	11 / 14:58	9	normal/no significant signs
			11-Sep-89 13:08	12 / 07:33	9	normal/no significant signs
			11-Sep-89 13:14	12 / 09:23	9	normal/no significant signs
			11-Sep-89 13:25	12 / 14:40	9	normal/no significant signs
			11-Sep-89 13:29	13 / 07:35	9	normal/no significant signs
			11-Sep-89 13:34	13 / 10:17	9	hunched posture, slight
						inactive, slight
			11-Sep-89 13:41	13 / 14:01	9	Increased respiration, slight
						collar caught in mouth
			11-Sep-89 13:53	14 / 08:11	9	hunched posture, slight
						dark material in nare, slight
						startles, slight
			11-Sep-89 13:59	14 / 09:24	9	stained nares, slight
						Increased respiration, moderate
			11-Sep-89 14:07	14 / 14:07	9	hunched posture, slight
						startles, slight
						Increased respiration, moderate
			11-Sep-89 14:14	15 / 07:22	9	Increased respiration, slight
			12-Sep-89 07:59	1 / 08:32	9	normal/no significant signs
			12-Sep-89 08:09	1 / 11:19	9	Increased respiration, slight
			12-Sep-89 08:18	1 / 14:29	9	normal/no significant signs
			12-Sep-89 08:25	2 / 08:04	9	normal/no significant signs
			12-Sep-89 08:30	2 / 11:35	9	Increased water consumption, moderate
			12-Sep-89 08:34	2 / 14:39	9	Increased water consumption, moderate
			12-Sep-89 08:43	3 / 08:50	9	normal/no significant signs
			12-Sep-89 08:57	3 / 11:56	9	Increased respiration, moderate

50 89F00381 F/10/4

## Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH				Raw Data Listings of Clinical Signs Without Masses				PRINTED: 26-Oct-89		
DIV OF RES SUPP, PATH SERV GP				Study Number: 88010f				Page: 111		
PRESIDIO OF SAN FRANCISCO, CA 94129				Data Listing by Animal						
RABBIT/NEW ZEALAND WHITE				Study Start Date: 30-May-89				SUB-ACUTE/		
Cage #	Animal Sex/group	Date Data was Entered	Time Data was Entered	Study Day/time	Oper Data was Taken	#	Clinical signs / Comments			
50	89F00361	F/10/4	12-Sep-89	08:57	3 / 11:56	9	rasping, moderate			
			12-Sep-89	09:08	3 / 14:59	9	inactive, slight			
			12-Sep-89	09:22	4 / 08:59	9	increased respiration, slight			
			12-Sep-89	09:36	4 / 10:34	9	rasping, slight			
							increased respiration, slight			
							labored breathing, moderate			
							increased respiration, slight			
							labored breathing, slight			
			12-Sep-89	09:31	4 / 16:15	9	inactive, slight			
			12-Sep-89	09:35	5 / 07:31	9	rasping, moderate			
							rasping, slight			
							inactive, slight			
							labored breathing, slight			
			12-Sep-89	09:48	5 / 11:35	9	inactive, severe			
							increased respiration, slight			
			12-Sep-89	09:55	5 / 14:25	9	inactive, moderate			
							increased respiration, moderate			
			12-Sep-89	10:02	6 / 08:15	9	rasping, moderate			
							tremors, slight			
			12-Sep-89	10:08	6 / 11:48	9	tremors, slight			
							uncoordinated, slight			
			12-Sep-89	10:16	6 / 16:27	9	normal/no significant signs			
			12-Sep-89	10:28	7 / 07:53	9	increased respiration, slight			
			12-Sep-89	10:38	7 / 11:21	9	increased respiration, moderate			
							rasping, moderate			
							hunched posture, slight			
			12-Sep-89	10:56	7 / 14:28	9	normal/no significant signs			
			12-Sep-89	11:00	8 / 08:15	9	normal/no significant signs			
			12-Sep-89	11:07	8 / 10:35	9	hunched posture, moderate			
			12-Sep-89	11:13	8 / 14:16	9	hunched posture, moderate			
							increased respiratory depth, moderate			
			12-Sep-89	11:18	9 / 07:35	9	increased respiratory depth, slight			
							increased respiration, moderate			
							stained nares, slight			
			12-Sep-89	11:27	9 / 10:46	9	increased respiration, moderate			

# Appendix D (cont.): INDIVIDUAL ANIMAL HISTORIES

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Raw Data Listings of Clinical Signs With Masses  
Study Number: 00010F  
Data Listing By Animal  
Study Start Date: 09-89

PRINTED: 26-Oct-89  
Page: 112

SUB-ACUTE/

Cage #	Animal Sex/Group	Date and Time Data was Entered	Study Day/Time Oper Data was Taken	Clinical signs / Comments
50 89F00301	F/10/4	12-Sep-89 11:27	9 / 10:46	9 stained nares, slight
		12-Sep-89 11:33	9 / 14:51	9 hunched posture, slight
		12-Sep-89 11:40	10 / 07:40	9 normal/no significant signs
				9 hunched posture, slight tremors, slight
		12-Sep-89 11:46	10 / 10:28	9 increased respiration, moderate
		12-Sep-89 11:50	10 / 15:08	9 normal/no significant signs
		12-Sep-89 11:54	11 / 07:50	9 normal/no significant signs
		12-Sep-89 12:00	11 / 11:07	9 increased respiratory depth, slight tremors, moderate
		12-Sep-89 12:06	11 / 14:54	9 normal/no significant signs
		12-Sep-89 12:11	12 / 07:55	9 normal/no significant signs
		12-Sep-89 12:16	12 / 11:18	9 increased respiration, moderate
		12-Sep-89 12:26	12 / 14:14	9 normal/no significant signs
		12-Sep-89 12:31	13 / 08:34	9 hunched posture, slight
		12-Sep-89 12:39	13 / 10:10	9 normal/no significant signs
		12-Sep-89 12:44	13 / 14:24	9 normal/no significant signs
		12-Sep-89 12:53	14 / 07:46	9 normal/no significant signs
		12-Sep-89 12:59	14 / 10:20	9 increased respiration, moderate disoriented, moderate
		12-Sep-89 13:05	14 / 14:08	9 normal/no significant signs
		12-Sep-89 13:09	15 / 07:30	9 normal/no significant signs



## Appendix E: BODY WEIGHTS (grams)

Animal Number	Group	Study Day							
		WK-5	WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Males									
89F00124	10		3143	3235	3310	3545	3494	3412	3452
89F00136	10	3478	3498	3619	3820	4024	3900	3337	3148
89F00142	10		3190	3346	3354	3484	3432	3556	3584
89F00168	10	2313	2982	3060	3190	3297	3399	3199	3112
89F00175	10	3473	3594	3665	3686	3847	3800	3396	3311
Mean		3088	3281	3385	3472	3639	3605	3380	3321
Std Dev		671	256	256	268	292	229	129	200
SEM		388	114	115	120	131	102	58	89

## Appendix E (cont.): BODY WEIGHTS (grams)

Animal Number	Group	Study Day							
		WK-5	WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Males									
89F00126	1		3526	3597	3674	3868	3920	3779	3792
89F00130	1	3465	3645	3634	3810	3972	3896	3896	3748
89F00140	1		3122	3211	3294	3455	3518	3471	3071
89F00155	1	3214	3317	3429	3556	3657	3811	3676	3622
89F00166	1	3160	3459	3502	3666	3798	3763	3789	3600
Mean		3280	3414	3475	3599	3750	3782	3722	3567
Std Dev		163	202	168	194	201	160	161	289
SEM		94	90	75	87	90	72	72	129
89F00118	2		3034	3088	3252	3552	3693	3812	3603
89F00132	2		3312	3333	3498	3670	3558	3503	3620
89F00141	2		3098	3157	3078	3366	3390	3104	3028
89F00176	2	2896	3310	3389	3340	3600	3688	3615	3694
89F00257	2						3258	3162	3199
Mean		2896	3189	3242	3292	3547	3517	3439	3429
Std Dev			144	142	175	130	190	301	296
SEM			72	71	88	65	85	135	132
89F00129	3		3092	3165	3224	3445	3386	3322	3222
89F00147	3	3044	2949	3036	3033	3144	3133	3171	3099
89F00154	3	3338	3516	3544	3715	3825	3797	3632	
89F00172	3	3215	3334	3556	3698	3810	4047	3871	3861
89F00173	3	3132	3158	3170	3384	3427	3498	3071	2922
Mean		3182	3210	3294	3411	3530	3572	3413	3276
Std Dev		125	220	240	297	288	357	332	409
SEM		63	98	107	133	129	160	149	204

## Appendix E (cont.): BODY WEIGHTS (grams)

Animal Number	Group	Study Day							
		WK-5	WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Males									
89F00127	4		3105	3245	3295	3491	3445	3424	3324
89F00131	4		3224	3313	3302	3427	3545	3250	3243
89F00157	4	2982	3129	3332	3369	3585	3599	3189	3069
89F00169	4	3317	3403	3355	3625	3720	3594	3393	3383
89F00258	4						2828	2665	2268
Mean		3150	3215	3311	3398	3556	3402	3184	3057
Std Dev		237	135	47	155	127	327	306	457
SEM		168	68	24	78	64	146	137	204
89F00116	5		3478	3503	3649	3821	3916	3999	3896
89F00128	5		3126	3150	3409	3447	3363	3998	3216
89F00148	5	3374	3480	3557	3685	3808	3892	3499	3486
89F00259	5						3207	3068	2861
89F00261	5						3028	2846	2819
Mean		3374	3361	3403	3581	3692	3481	3482	3256
Std Dev			204	221	150	212	404	527	450
SEM			118	128	87	123	181	236	201
89F00120	6		3151	3352	3445	3664	3604	3594	3478
89F00143	6		3241	3398	3491	3729	3648	3431	3591
89F00149	6	3477	3313	3516	3676	3721	3877	3627	3486
89F00177	6	3478	3588	3708	3728	3919	3996	3933	3784
89F00263	6						2807	2600	2427
Mean		3478	3323	3494	3585	3758	3586	3437	3353
Std Dev		1	189	159	138	111	465	502	532
SEM		1	94	79	69	56	208	224	238



## Appendix E (cont.): BODY WEIGHTS (grams)

Animal Number	Group	Study Day							
		WK-5	WK-4	WK-3	WK-2	WK -1	Day-1	Day 7	Day 14
Males									
89F00115	7		3291	3499	3516	3661	3659	3559	3557
89F00137	7		3310	3362	3452	3555	3585	3632	3863
89F00164	7	3118	3287	3241	3368	3424	3429	3262	3039
89F00171	7	3104	3550	3349	3463	3489	3576	3440	3225
89F00264	7						2953	3209	2972
Mean		3111	3360	3363	3450	3532	3440	3420	3331
Std Dev		10	127	106	61	101	285	183	374
SEM		7	64	53	31	51	127	82	167
89F00125	8		3290	3362	3315	3526	3602	3695	3647
89F00145	8		3202	3201	3243	3352	3202	3338	3301
89F00158	8	3133	3342	3329	3413	3659	3912	3661	
89F00165	8	3521	3565	3638	3807	3908	3986	3625	3447
89F00266	8						2965		
Mean		3327	3350	3383	3445	3611	3533	3580	3465
Std Dev		274	155	184	252	234	443	164	174
SEM		194	77	92	126	117	198	82	100
89F00121	9		3234	3333	3389	3601	3680	3722	3783
89F00139	9		3038	3132	3187	3358	3395	3374	3564
89F00151	9	3126	3261	3239	3448	3586	3865	3251	3491
89F00156	9	3457	3673	3791	3882	4091	4311	4226	4047
89F00267	9						3101	2873	2647
Mean		3292	3302	3374	3477	3659	3670	3489	3506
Std Dev		234	267	290	293	309	461	512	527
SEM		166	133	145	146	154	206	229	236

## Appendix E (cont.): BODY WEIGHTS (grams)

Animal Group Number		Study Day						
		WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Females								
89F00350	10		3143	3141	3290	3256	3409	3402
89F00351	10		3098	3199	3324	3294	3456	3510
89F00364	10	2920	2899	3089	3167	3134	3200	3288
89F00373	10	2801	2843	3007	3210	3156	3107	3010
89F00381	10	3076	3152	3304	3410	3367	3740	3897
Mean		2932	3027	3148	3280	3241	3382	3421
Std Dev		138	145	112	96	97	247	325
SEM		80	65	50	43	43	110	145

## Appendix E (cont.): BODY WEIGHTS (grams)

Animal Group Number	Group	Study Day						
		WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Females								
89F00338	1		2737	2828	2844	2809	3128	3162
89F00339	1		3023	3108	3184	3232	3394	3336
89F00352	1		3167	3247	3226	3251	3189	3541
89F00369	1	3016	2844	3082	3190	3120	3103	3346
89F00377	1	2913	3022	3126	3370	3309	3446	3579
Mean		2965	2959	3078	3163	3144	3252	3393
Std Dev		73	169	154	193	200	158	170
SEM		52	75	69	87	89	70	76
89F00337	2		2705	2824	2989	2811	2949	3046
89F00358	2		2791	2869	3062	2864	2692	2776
89F00371	2	3035	3194	3328	3436	3334	3285	2808
89F00389	2	3275	3323	3423		3568	3566	3568
89F00391	2		2816	2840	2923	3087	2856	3152
Mean		3155	2966	3057	3102	3133	3070	3070
Std Dev		170	274	293	229	319	352	320
SEM		120	123	131	115	143	157	143
89F00348	3		2598	2802	2991	3038	3187	3113
89F00355	3		3213	3278	3368	3442	3318	3331
89F00368	3	2933	2899	3082	3124	3016	3233	3388
89F00370	3	2976	2893	3203	3296	3364	3515	3562
89F00383	3	2614	2689	2866	2949	2967	2750	2507
Mean		2841	2858	3046	3146	3165	3201	3180
Std Dev		198	237	207	184	220	281	409
SEM		114	106	93	82	98	126	183

## Appendix E (cont.): BODY WEIGHTS (grams)

Animal Group Number		Study Day						
		WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Females								
89F00345	4		3028	3076	3268	3226	3391	3387
89F00354	4		2723	2772	2850	3030	3074	3315
89F00374	4	3002	3012	3010	3059	2914	3063	3137
89F00380	4	2854	2971	3004	3094	3053	3094	3037
89F00387	4	3244	3307	3346	3496	3357	3400	3382
Mean		3033	3008	3042	3153	3116	3204	3252
Std Dev		197	208	206	242	175	175	157
SEM		114	93	92	108	78	78	70
89F00341	5		3028	3048	3141	3195	3005	3048
89F00347	5		2943	3118	3229	3309	3382	3366
89F00360	5		2860	2863	2951	2981	3047	3229
89F00375	5	2845	2748	2922	3032	3165	3391	3200
89F00394	5	3150	3358	3502		3533	3459	3746
Mean		2998	2987	3091	3088	3237	3257	3318
Std Dev		216	232	251	122	203	213	265
SEM		153	104	112	61	91	95	118
89F00343	6		2770	2933	3176	3180	3331	3417
89F00357	6		3078	3032	3297	3342	3337	3647
89F00362	6		2879	2876	3007	2965	2859	3167
89F00363	6	3259	3309	3433	3651	3620		
89F00379	6	3151	3130	3411	3387	3340	3112	2763
Mean		3205	3033	3137	3304	3289	3160	3249
Std Dev		76	212	266	241	241	226	378
SEM		54	95	119	108	108	113	189

## Appendix E (cont.): BODY WEIGHTS (grams)

Animal Group Number		Study Day						
		WK-4	WK-3	WK-2	WK-1	Day-1	Day 7	Day 14
Females								
89F00344	7		3200	3268	3424	3449	3598	3745
89F00353	7		3307	3373	3512	3611	3692	3822
89F00366	7	3083	3156	3302	3436	3347	3552	3521
89F00372	7	2659	2715	2932	3100	3264	3484	3339
89F00390	7	2930	3057	3254		3371	3264	3418
Mean		2891	3087	3226	3368	3408	3518	3569
Std Dev		215	227	171	183	131	161	208
SEM		124	101	76	91	59	72	93
89F00346	8		2956	2945	3071	3133	3282	3140
89F00359	8		2810	2828	2852	2946	2989	2898
89F00365	8	2723	2643	2918	3017	3093	3416	3304
89F00392	8	3216	3237	3455		3480	3071	2820
89F00393	8	2684	2827	2972		3098	3194	3223
Mean		2874	2895	3024	2980	3150	3190	3077
Std Dev		297	221	247	114	198	169	209
SEM		171	99	111	66	89	76	94
89F00340	9		3118	3271	3333	3267	3510	3536
89F00349	9		2764	2811	2943	2969	3094	3047
89F00356	9		3041	3108	3136	3061	3217	3315
89F00367	9	2784	2746	3057	3165	3169	3328	3502
89F00384	9	3135	3048	3123	3259	3201	3309	3016
Mean		2960	2943	3074	3167	3133	3292	3283
Std Dev		248	175	167	148	118	153	245
SEM		176	78	75	66	53	69	110

Appendix F: WATER CONSUMPTION (ml/day)

Animal Number	Sex	Group	WK-3	WK-2	WK-1	0	Study Day			3	4	5	6	7	14
							1	2							
89F00124	M	10		287	239	263	192	163	93	203	168	80	87	187	
89F00136	M	10	417	415	364	146	230	293	297	205	84	62	35	136	
89F00142	M	10	366	281	276	231	358	419	308	377	275	217	298	150	
89F00168	M	10		357	426	398	256	453	394	225	309	153	206	151	
89F00175	M	10	346	303	312	127	246	108	119	66	100	105	73	111	
Mean			376.3	328.6	323.4	233.0	256.4	287.2	242.2	215.2	187.2	123.4	139.8	147.0	
Std Dev			36.6	56.8	73.6	108.3	61.8	152.0	130.2	110.4	101.4	62.5	109.1	27.6	
SEM			21.1	25.4	32.9	48.4	27.6	68.0	58.2	49.4	45.4	28.0	48.8	12.3	

Appendix F (cont.): WATER CONSUMPTION (ml/day)

Animal Number	Sex	Group	Study Day											
			WK-3	WK-2	WK-1	0	1	2	3	4	5	6	7	14
89F00126	M	1		306	293	406	458	380	481	395	369	363	309	269
89F00130	M	1	122	269	77	193	268	265	355	330	314	325	251	256
89F00140	M	1	309	376	446	401	425	316	339	409	386	142	228	119
89F00155	M	1	418	411	286	435	428	394	399	369	354	385	301	173
89F00166	M	1	388	349	331	294		459		438	359	211	340	303
Mean			309.3	342.2	286.6	345.8	394.8	362.8	393.5	388.2	356.4	285.2	285.8	224.0
Std Dev			133.0	56.1	133.6	100.8	85.8	74.6	63.6	41.0	26.7	104.4	45.4	75.7
SEM			66.5	25.1	59.7	45.1	42.9	33.4	31.8	18.3	11.9	46.7	20.3	33.8
89F00118	M	2		322	300	176	435	314	512	366	351	398	351	337
89F00132	M	2	274		216	197		464	471		315	457	394	281
89F00141	M	2	204	219	364	250	228	169	213	217	177	179	206	461
89F00176	M	2	334	392	245	237	486	369	415	403	367	411	394	353
89F00257	M	2			443	443	283	382	294	288	359	317	228	199
Mean			270.7	311.0	313.6	260.6	358.0	339.6	381.0	318.5	313.8	352.4	314.6	326.2
Std Dev			65.1	87.0	91.8	106.2	122.3	109.4	124.7	82.9	79.0	109.3	91.1	96.5
SEM			37.6	50.2	41.0	47.5	61.1	48.9	55.8	41.5	35.3	48.9	40.8	43.1
89F00129	M	3		261	269	162	274	260	276	229	273	264	256	525
89F00147	M	3	167	162	130	153	370	357	582	404	392	409	449	240
89F00154	M	3	302	290	170	399	365	372	317	211	226	305	297	
89F00172	M	3	326	273	261	393	905	740	739	693	446	458	417	332
89F00173	M	3	283	340	289	433	506	340	380	467	161	213	310	324
Mean			269.5	265.2	223.8	308.0	484.0	413.8	458.8	400.8	299.6	329.8	345.8	355.3
Std Dev			70.6	65.1	69.6	138.3	249.5	187.4	195.8	197.0	117.6	101.6	82.8	120.6
SEM			35.3	29.1	31.1	61.8	111.6	83.8	87.6	88.1	52.6	45.4	37.0	60.3

Appendix F (cont.): WATER CONSUMPTION (ml/day)

Animal Number	Sex	Group	WK-3	WK-2	WK-1	0	Study Day						
							1	2	3	4	5	6	7
89F00127	M	4		328	395	249	405	316	342	361	361	373	284
89F00131	M	4	325	338	476	459	440	495	432	446	403	182	383
89F00157	M	4	375	436	389	472	353	442	444	464	434	374	431
89F00169	M	4	291	251	217	431	170	234	275	231	215	214	290
89F00258	M	4			190	190	433	454	696	588	482	176	315
Mean			330.3	338.3	333.4	360.2	360.2	388.2	437.8	418.0	379.0	263.8	340.6
Std Dev			42.3	75.9	123.8	131.0	111.7	109.1	160.0	132.3	101.8	101.2	64.0
SEM			24.4	37.9	55.4	58.6	50.0	48.8	71.6	59.2	45.5	45.2	28.6
89F00116	M	5		371	379	398	459	590	537	430	437	349	371
89F00128	M	5		426		185	318	350	314	295	349	361	274
89F00148	M	5	336	285	223	294	381	751	632	602	425	456	468
89F00259	M	5		212	212	212	437	436	282	328	346	269	311
89F00261	M	5		418	418	418	433	452	264	389	430	371	429
Mean			336.0	360.7	308.0	301.4	405.6	515.8	405.8	408.8	397.4	361.2	370.6
Std Dev			-	71.1	105.8	105.5	56.7	157.1	167.5	120.0	45.8	66.6	80.3
SEM			-	41.0	52.9	47.2	25.4	70.3	74.9	53.7	20.5	29.8	35.9
89F00120	M	6		337	308	302	481	524	468	426	395	390	352
89F00143	M	6	406	412	162	130	496	547	417	426	465	347	394
89F00149	M	6	430	350	269	279	434	872	907	861	840	447	806
89F00177	M	6	421	419	435	425	641	469	520	520	442	607	529
89F00263	M	6			255	255	460	423	64	177	249	271	275
Mean			419.0	379.5	285.8	223.8	502.4	587.0	475.2	482.0	478.2	412.4	471.2
Std Dev			12.1	42.0	99.1	77.4	80.9	176.8	300.4	247.2	219.0	126.3	208.6
SEM			7.0	21.0	44.3	34.6	36.2	79.1	134.3	110.5	97.9	56.5	93.3



Appendix F (cont.): WATER CONSUMPTION (ml/day)

Animal Number	Sex	Group	WK-3	WK-2	WK-1	0	Study Day							
							1	2	3	4	5	6	7	14
89F00115	M	7		312	112	186	204	175	145	161	151	179	157	71
89F00137	M	7	221	261	245	255	339	315	259	265	195	232	234	157
89F00164	M	7	248	221	145	409	449	486	211	159	200	218	287	70
89F00171	M	7	241		231	411	459	210	189	184	129	149	163	56
89F00264	M	7			248	248	224	279	201	177	249	208	155	199
Mean			236.7	264.7	196.2	301.8	335.0	293.0	201.0	189.2	184.8	197.2	199.2	110.6
Std Dev			14.0	45.6	63.2	102.4	120.3	121.2	41.1	43.7	46.7	33.2	59.1	63.6
SEM			8.1	26.3	28.3	45.8	53.8	54.2	18.4	19.5	20.9	14.9	26.4	28.4
89F00125	M	8		374	271	226	207	265		192	164	210	172	81
89F00145	M	8	161	181	311	164	315	351	237	306	201	456	224	187
89F00158	M	8	248	409	333	181	222	199		265		394	205	
89F00165	M	8	401	378	376	424	420	324	380	279	243	270	286	298
89F00266	M	8			312	312	439	383	91	0	1	96	243	
Mean			270.0	335.5	320.6	261.4	320.6	304.4	236.0	208.4	152.3	285.2	226.0	188.7
Std Dev			121.5	104.2	38.2	107.5	107.9	73.1	144.5	123.9	105.9	143.8	42.6	108.5
SEM			70.1	52.1	17.1	48.1	48.2	32.7	83.4	55.4	52.9	64.3	19.0	62.6
89F00121	M	9		319	265	461	336	292	146	294	244	216	243	195
89F00139	M	9	228	261	469	349	244	224	137	164	142	143	138	161
89F00151	M	9	323	310	364	458	293	150	175	247	104	191	69	40
89F00156	M	9	402	380	253	259	235	396	203	82	121	250	141	133
89F00267	M	9			375	297	331	230	94	146	149	83	206	281
Mean			317.7	317.5	345.2	364.8	287.8	258.4	151.0	186.6	152.0	176.6	159.4	162.0
Std Dev			87.1	48.8	88.7	92.2	47.2	91.9	41.1	84.1	54.4	65.3	67.3	88.0
SEM			50.3	24.4	39.7	41.2	21.1	41.1	18.4	37.6	24.3	29.2	30.1	39.4

Appendix F (cont.): WATER CONSUMPTION (ml/day)

Animal Number	Sex	Group	WK-3	WK-2	WK-1	0	Study Day		3	4	5	6	7	14
							1	2						
89F00350	F	10		241	311	202	134	205	254	154	369	188	175	184
89F00351	F	10		245	217	224	181	210	142	160	136	145	160	133
89F00364	F	10	186	220	210	147	152	93	209	212	197	214	179	151
89F00373	F	10	206	193		238	207	64	122	175	207	112	233	48
89F00381	F	10	193	235	121	237	242	314	199	224	259	278	222	165
Mean			195.0	226.8	214.8	209.6	183.2	177.2	185.2	185.0	233.6	187.4	193.8	136.2
Std Dev			10.1	21.1	77.6	37.9	43.1	100.6	53.3	31.4	87.4	64.0	31.8	52.7
SEM			5.9	9.5	38.8	16.9	19.3	45.0	23.8	14.0	39.1	28.6	14.2	23.6

Appendix E (cont.): WATER CONSUMPTION (ml/day)

			Study Day											
Animal	Sex	Group	WK-3	WK-2	WK-1	0	1	2	3	4	5	6	7	14
Number														
89F00338	F	1		223	209	379	334	364	366	246	221	251	213	231
89F00339	F	1		290	446	398	331	430	369	426	466	451	300	348
89F00352	F	1		245	217	243	435	412	417	311	310	282	317	445
89F00369	F	1	173	223	221	145	254	170	153	144	161	127	288	149
89F00377	F	1	196	230	231	218	327	313	250	260	145	235	129	115
Mean			184.5	242.2	264.8	276.6	336.2	337.8	311.0	277.4	260.6	269.2	249.4	257.6
Std Dev			16.3	28.2	101.6	108.5	64.5	104.2	107.6	102.8	131.8	117.2	78.2	138.0
SEM			11.5	12.6	45.4	48.5	28.8	46.6	48.1	46.0	58.9	52.4	35.0	61.7
89F00337	F	2		242	275	200	278	441	460	381	376	344	330	280
89F00358	F	2		233	224	134	211	202	203	164	168	189	196	197
89F00371	F	2	334	363	259	148	260	308	277	34	182	189	245	28
89F00389	F	2	287	312	291	436	644	447	462	597	376	151	275	264
89F00391	F	2		223	219	198	192	266	281	347	278	250	261	278
Mean			310.5	274.6	253.6	223.2	317.0	332.8	336.6	304.6	276.0	224.6	261.4	209.4
Std Dev			33.2	60.6	31.5	122.5	186.1	108.3	117.7	215.7	100.6	75.6	48.6	106.9
SEM			23.5	27.1	14.1	54.8	83.2	48.4	52.7	96.5	45.0	33.8	21.7	47.8
89F00348	F	3		244	217	297	350	428	413	434	445	436	424	435
89F00355	F	3		212	258	241	163	148	274	207	373	303	338	358
89F00368	F	3	233	227	216	167	364	292	325	301	308	313	354	298
89F00370	F	3	173	223	221	180	349	340	394	326	312	287	310	309
89F00383	F	3	181	216	220	294	359	317	388	277	195	186	179	149
Mean			195.7	224.4	226.4	235.8	317.0	305.0	358.8	309.0	326.6	305.0	321.0	309.8
Std Dev			32.6	12.4	17.8	61.3	86.3	101.6	57.8	82.8	92.3	89.0	89.8	104.9
SEM			18.8	5.6	8.0	27.4	38.6	45.5	25.8	37.0	41.3	39.8	40.2	46.9

Appendix F (cont.): WATER CONSUMPTION (ml/day)

Animal Number	Sex	Group	WK-3	WK-2	WK-1	0	Study Day							
							1	2	3	4	5	6	7	14
89F00345	F	4		203	205	234	316	339	421	344	345	355	301	367
89F00354	F	4		187	229	299	369	214	317	301	347	235	184	204
89F00374	F	4	206	193		352	449	462	428	380	428	512	457	439
89F00380	F	4		230	220	233	305	336	280	283	283	276	259	205
89F00387	F	4	220	213	363	433	448	460	391	343	602	314	446	148
Mean			213.0	205.2	254.3	310.2	377.4	362.2	367.4	330.2	401.0	338.6	329.4	272.6
Std Dev			9.9	17.0	73.2	84.7	69.3	103.3	65.7	38.5	123.6	106.5	119.1	123.9
SEM			7.0	7.6	36.6	37.9	31.0	46.2	29.4	17.1	55.3	47.6	53.3	55.4
89F00341	F	5		321	263	166	51	167	186	165	191	258	310	329
89F00347	F	5		226	217	267	345	409	360	145	277	443	436	448
89F00360	F	5		215	215	267	437	334	356	379	340	376	374	323
89F00375	F	5	203	231	232	153	413	489	441	437	435	331	399	247
89F00394	F	5	299	299	293	256	422	465	188	373	331	394	371	493
Mean			251.0	258.4	244.0	221.8	333.6	372.8	306.2	299.8	314.8	360.4	378.0	368.0
Std Dev			67.9	48.1	33.5	57.2	161.9	129.6	114.0	134.7	89.6	69.9	46.1	100.3
SEM			48.0	21.5	15.0	25.6	72.4	58.0	51.0	60.2	40.1	31.3	20.6	44.8
89F00343	F	6		268	237	216	351	418	451	412	385	411	391	439
89F00357	F	6		233	224	273	439	428	368	375	282	413	389	464
89F00362	F	6		228	226	301	457	354	316	392	352	332	358	400
89F00363	F	6	341	466	418	269	453	6						
89F00379	F	6		230	220	274	445	437	364	370	271	314	290	189
Mean			341.0	285.0	265.0	266.6	429.0	328.6	374.8	387.3	322.5	367.5	357.0	373.0
Std Dev			-	102.5	85.8	31.0	44.2	183.3	56.1	19.0	55.0	51.9	47.2	125.5
SEM			-	45.8	38.4	13.9	19.7	82.0	28.0	9.5	27.5	26.0	23.6	62.7

Appendix F (cont.): WATER CONSUMPTION (ml/day)

Animal Number	Sex	Group	WK-3	WK-2	WK-1	0	Study Day							
							1	2	3	4	5	6	7	14
89F00344	F	7		203	205	302	141	296	325	329	363	390	255	302
89F00353	F	7		187	229	275	181	299	231	266	228	160	191	361
89F00366	F	7	302	250	254	424	459	237	277	112	152	164	212	284
89F00372	F	7	308	490	398	399	273	217	239	184	189	187	267	152
89F00390	F	7	360	383	340	310	333	243	178	117	68	245	185	157
Mean			323.3	302.6	285.2	342.0	277.4	258.4	250.0	201.6	200.0	229.2	222.0	251.2
Std Dev			31.9	130.0	81.1	65.4	126.5	37.0	54.8	94.7	108.6	96.1	37.2	92.8
SEM			18.4	58.2	36.3	29.2	56.6	16.5	24.5	42.4	48.6	43.0	16.6	41.5
89F00346	F	8		226	217	220	108	196	181	99	162	186	151	130
89F00359	F	8		215	215	230	382	235	298	243	256	169	54	135
89F00365	F	8	186	220	210	293	363	355	272	225	351	372	368	317
89F00392	F	8	223	219	224	324	188	158	113	138	56	19	75	9
89F00393	F	8	198	248	270	196	226	131	308	173	141	155	194	28
Mean			202.3	225.6	227.2	252.6	253.4	215.0	234.4	175.6	193.2	180.0	168.4	123.8
Std Dev			18.9	13.1	24.4	53.6	117.0	87.6	84.4	59.7	113.3	126.1	125.1	122.3
SEM			10.9	5.9	10.9	24.0	52.3	39.2	37.7	26.7	50.7	56.4	56.0	54.7
89F00340	F	9		202	248	198	52	184	144	190	150	155	152	122
89F00349	F	9		244	217	343	305	285	278	193	224	253	220	258
89F00356	F	9		212	258	237	240	205	145	167	125	186	173	137
89F00367	F	9	233	227	216	158	201	201	157	163	125	125	189	159
89F00384	F	9	181	216	220	362	259	273	228	294	346	318	371	91
Mean			207.0	220.2	231.8	259.6	211.4	229.6	190.4	201.4	194.0	207.4	221.0	153.4
Std Dev			36.8	16.0	19.7	89.5	96.6	46.0	60.0	53.5	94.2	78.0	87.4	63.5
SEM			26.0	7.2	8.8	40.0	43.2	20.6	26.8	23.9	42.1	34.9	39.1	28.4



## Appendix G: SERUM CHEMISTRY

## List of Serum Chemistry Abbreviations/Units

ALT	Alanine Aminotransferase (U/l)
AST	Aspartate Aminotransferase (U/l)
ALK	Alkaline Phosphatase (U/l)
LDH	Lactate Dehydrogenase (U/l)
GGT	Gamma Glutamyl Transpeptidase (U/l)
CK	Creatine Phosphokinase (U/l)
BILI	Total Bilirubin (mg/dl)
CHOL	Cholesterol (mg/dl)
TRIG	Triglyceride (mg/dl)
URIC	Uric Acid (mg/dl)
TP	Total Protein (g/dl)
ALB	Albumin (g/dl)
A-G	Albumin/Globulin Ratio
GLU	Glucose (mg/dl)
BUN	Blood Urea Nitrogen (mg/dl)
CR	Creatinine (mg/dl)
CAL	Calcium (mg/dl)
PHOS	Phosphorus (mg/dl)
NA	Sodium (Meq/l)
CL	Chloride (Meq/l)
K	Potassium (Meq/l)
IRON	Iron (µg/dl)
MAG	Magnesium (mg/dl)
NT	Not Taken

Appendix G (cont.): SEKUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00124	M	10	-7	38.6	13.0	79.8	55.5	3.7	445.1	0.0	24.1
89F00136	M	10	-7	56.1	16.0	94.3	120.9	5.6	860.7	0.0	17.4
89F00142	M	10	-7	34.5	10.6	120.2	65.6	7.9	395.5	0.0	14.8
89F00168	M	10	-7	62.4	34.9	150.9	169.0	4.7	880.5	0.0	24.5
89F00175	M	10	-7	55.9	28.3	66.3	294.9	9.3	992.8	0.0	90.0
Mean				49.50	20.60	102.30	141.18	6.24	714.9	0.00	34.16
Std Dev				12.19	10.47	33.72	97.30	2.31	274.2	0.00	31.50
SEM				5.45	4.68	15.08	43.51	1.03	122.6	0.00	14.09



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00126	M	1	-7	35.0	18.9	24.3	67.9	4.1	560.6	0.0	16.6
89F00130	M	1	-7	37.8	11.2	127.1	55.9	3.4	769.7	0.0	21.4
89F00140	M	1	-7	38.6	9.5	69.0	76.1	5.9	372.6	0.0	39.7
89F00155	M	1	-7	33.2	19.5	74.4	100.6	9.8	1163.2	0.0	33.7
89F00166	M	1	-7	75.0	31.1	57.6	257.9	7.1	1119.9	0.0	30.2
Mean				43.92	18.04	70.48	111.68	6.06	797.2	0.00	28.32
Std Dev				17.51	8.56	37.15	83.36	2.55	344.7	0.00	9.32
SEM				7.83	3.83	16.62	37.28	1.14	154.1	0.00	4.17
89F00118	M	2	-7	36.1	10.4	116.3	56.1	7.4	579.5	0.0	44.7
89F00132	M	2	-7	65.6	23.5	109.0	42.1	4.6	267.9	0.0	33.6
89F00141	M	2	-7	48.3	12.4	79.5	131.9	6.0	590.7	0.0	40.4
89F00176	M	2	-7	79.7	23.6	191.9	262.8	8.8	1516.5	0.0	29.4
89F00257	M	2	-7	71.2	20.6	78.7	193.7	8.5	899.7	0.0	39.7
Mean				60.18	18.10	115.08	137.32	7.06	770.9	0.00	37.56
Std Dev				17.70	6.27	46.18	93.03	1.76	472.9	0.00	6.04
SEM				7.91	2.81	20.65	41.60	0.79	211.5	0.00	2.70
89F00129	M	3	-7	42.4	10.5	89.4	67.3	6.1	337.9	0.0	24.6
89F00147	M	3	-7	120.9	32.1	131.1	75.0	24.5	334.8	0.0	59.2
89F00154	M	3	-7	33.5	24.6	54.1	221.2	6.5	8091.7	0.0	89.5
89F00172	M	3	-7	50.6	16.7	59.4	211.1	9.0	1238.6	0.0	28.9
89F00173	M	3	-7	32.4	17.4	134.0	176.7	9.3	929.2	0.1	80.7
Mean				55.96	20.26	93.60	150.26	11.08	2186.5	0.02	56.58
Std Dev				37.05	8.29	38.03	74.13	7.64	3324.0	0.04	29.42
SEM				16.57	3.71	17.01	33.15	3.42	1486.6	0.02	13.16

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00127	M	4	-7	34.5	11.6	79.1	78.6	4.6	323.7	0.0	41.3
89F00131	M	4	-7	36.0	10.9	69.1	102.5	5.2	438.6	0.0	31.7
89F00157	M	4	-7	50.0	16.5	80.3	116.6	5.3	561.0	0.0	24.3
89F00169	M	4	-7	79.6	23.0	78.5	172.7	7.3	772.4	0.0	38.5
89F00258	M	4	-7	55.2	17.7	93.7	128.6	6.7	577.6	0.0	36.5
Mean				51.06	15.94	80.14	119.80	5.82	534.7	0.00	34.46
Std Dev				18.26	4.94	8.80	34.94	1.13	167.9	0.00	6.67
SEM				8.17	2.21	3.93	15.63	0.51	75.1	0.00	2.98
89F00116	M	5	-7	49.3	16.7	140.8	128.0	4.3	1057.1	0.0	24.5
89F00128	M	5	-7	49.0	11.1	156.9	58.5	9.5	235.5	0.0	29.7
89F00148	M	5	-7	35.5	27.5	39.1	238.3	6.3	4864.2	0.0	31.6
89F00259	M	5	-7	30.2	18.2	84.1	148.8	4.8	962.0	0.0	42.1
89F00261	M	5	-7	32.8	13.2	211.2	65.8	6.7	343.4	0.0	49.0
Mean				39.36	17.34	126.42	127.88	6.32	1492.4	0.00	35.38
Std Dev				9.13	6.33	66.59	72.97	2.04	1919.6	0.00	9.94
SEM				4.08	2.83	29.78	32.63	0.91	858.5	0.00	4.45
89F00120	M	6	-7	46.5	12.0	85.2	137.8	4.6	794.2	0.0	33.1
89F00143	M	6	-7	54.2	13.7	79.7	123.4	4.9	570.2	0.0	17.2
89F00149	M	6	-7	39.1	28.1	116.9	341.2	7.7	3820.4	0.0	32.8
89F00177	M	6	-7	58.4	26.0	57.0	227.5	9.1	980.7	0.0	22.8
89F00263	M	6	-7	53.3	28.3	229.2	447.4	7.2	626.7	0.0	34.0
Mean				50.30	21.62	113.60	255.46	6.70	1358.4	0.00	27.98
Std Dev				7.58	8.08	68.07	138.07	1.91	1385.6	0.00	7.56
SEM				3.39	3.61	30.44	61.75	0.86	619.6	0.00	3.38

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00115	M	7	-7	69.1	31.8	112.8	159.9	5.1	1732.2	0.0	24.0
89F00137	M	7	-7	25.3	11.6	119.7	65.0	6.2	333.4	0.0	31.0
89F00164	M	7	-7	33.2	19.8	80.3	242.4	7.6	1224.1	0.0	35.6
89F00171	M	7	-7	28.0	15.6	146.2	131.1	8.1	626.5	0.0	48.2
89F00264	M	7	-7	35.4	8.0	128.5	52.6	6.4	240.8	0.0	29.8
Mean				38.20	17.36	117.50	130.20	6.68	831.4	0.00	33.72
Std Dev				17.73	9.20	24.27	77.05	1.19	633.3	0.00	9.09
SEM				7.93	4.11	10.85	34.46	0.53	283.2	0.00	4.06
89F00125	M	8	-7	66.3	20.9	92.9	72.4	6.6	643.8	0.0	29.4
89F00145	M	8	-7	35.0	12.4	117.2	40.0	9.7	228.4	0.0	27.1
89F00158	M	8	-7	61.4	26.6	66.6	385.6	5.8	696.2	0.0	31.3
89F00165	M	8	-7	37.9	20.8	78.6	214.8	8.9	1186.0	0.0	44.4
89F00266	M	8	-7	53.7	13.4	112.5	58.2	5.8	451.6	0.0	40.7
Mean				50.86	18.82	93.56	154.20	7.36	641.2	0.00	34.58
Std Dev				13.94	5.90	21.61	146.77	1.82	355.7	0.00	7.54
SEM				6.23	2.64	9.67	65.64	0.82	159.1	0.00	3.37
89F00121	M	9	-7	54.7	13.6	108.8	135.3	4.6	640.6	0.0	25.9
89F00139	M	9	-7	40.7	17.1	77.3	133.9	5.8	739.2	0.0	19.4
89F00151	M	9	-7	27.4	13.0	68.9	159.3	6.2	2327.3	0.0	26.0
89F00156	M	9	-7	26.1	22.1	81.2	381.9	2.8	1543.1	0.0	23.1
89F00267	M	9	-7	22.4	23.1	99.3	187.6	6.7	609.1	0.0	54.0
Mean				34.26	17.78	87.10	199.60	5.22	1171.9	0.00	29.68
Std Dev				13.36	4.68	16.45	104.23	1.56	751.5	0.00	13.86
SEM				5.97	2.09	7.35	46.61	0.70	336.1	0.00	6.20

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	SUN	CR
89F00124	M	10	-7	68	0.3	5.5	3.8	2.2	127.8	16.9	1.0
89F00136	M	10	-7	73	0.0	6.0	4.4	2.6	136.6	21.4	1.1
89F00142	M	10	-7	43	0.0	5.4	3.9	2.6	125.1	19.1	0.8
89F00168	M	10	-7	46	0.0	5.6	4.5	4.1	113.5	19.5	1.4
89F00175	M	10	-7	71	0.0	6.0	5.1	5.7	110.6	20.1	1.1
Mean				60.2	0.06	5.70	4.34	3.44	122.72	19.40	1.08
Std Dev				14.5	0.13	0.28	0.52	1.46	10.68	1.65	0.22
SEM				6.5	0.06	0.13	0.23	0.65	4.78	0.74	0.10

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00126	M	1	-7	93	0.4	4.9	3.6	2.8	117.0	18.8	1.1
89F00130	M	1	-7	41	0.4	5.6	4.1	2.8	114.6	20.7	0.9
89F00140	M	1	-7	84	0.3	5.9	4.1	2.3	143.5	19.2	0.9
89F00155	M	1	-7	35	0.1	5.8	4.6	4.0	100.1	21.6	0.9
89F00166	M	1	-7	68	0.1	6.7	5.0	2.9	80.7	25.9	0.9
Mean				64.2	0.26	5.78	4.28	2.96	111.18	21.24	0.94
Std Dev				25.6	0.15	0.65	0.54	0.63	23.14	2.84	0.09
SEM				11.5	0.07	0.29	0.24	0.28	10.35	1.27	0.04
89F00118	M	2	-7	64	0.4	5.7	4.0	2.4	113.6	22.9	1.0
89F00132	M	2	-7	34	0.4	5.6	4.1	2.8	131.0	14.5	1.1
89F00141	M	2	-7	126	0.4	5.9	4.3	2.7	127.4	20.1	1.1
89F00176	M	2	-7	53	0.0	6.1	4.8	3.7	102.1	24.0	1.0
89F00257	M	2	-7	52	0.1	5.9	4.2	2.3	114.2	19.9	1.1
Mean				65.8	0.26	5.84	4.28	2.78	117.66	20.28	1.06
Std Dev				35.3	0.19	0.19	0.31	0.55	11.66	3.68	0.05
SEM				15.8	0.09	0.09	0.14	0.25	5.21	1.65	0.02
89F00129	M	3	-7	48	0.4	6.2	4.3	2.2	139.1	21.7	1.0
89F00147	M	3	-7	89	0.2	6.1	4.2	2.3	139.0	18.8	1.4
89F00154	M	3	-7	45	0.0	6.6	4.8	2.7	119.2	17.4	0.9
89F00172	M	3	-7	57	0.1	5.4	4.3	3.7	91.6	22.6	1.0
89F00173	M	3	-7	605	0.0	6.2	4.8	3.4	114.6	26.0	0.9
Mean				168.8	0.14	6.10	4.48	2.86	120.70	21.30	1.04
Std Dev				244.5	0.17	0.44	0.29	0.67	19.75	3.37	0.21
SEM				109.3	0.07	0.19	0.13	0.30	8.83	1.51	0.09

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00127	M	4	-7	88	0.4	6.1	4.2	2.3	140.7	20.7	1.1
89F00131	M	4	-7	95	0.0	5.9	4.6	3.5	128.6	21.9	1.0
89F00157	M	4	-7	65	0.0	5.8	4.2	2.6	125.3	25.0	1.1
89F00169	M	4	-7	67	0.0	6.0	4.3	2.6	108.6	23.4	1.3
89F00258	M	4	-7	99	0.1	5.6	4.1	2.7	132.1	17.4	1.0
Mean				82.8	0.10	5.88	4.28	2.74	127.06	21.68	1.10
Std Dev				15.8	0.17	0.19	0.19	0.45	11.81	2.89	0.12
SEM				7.1	0.08	0.09	0.09	0.20	5.28	1.29	0.05
89F00116	M	5	-7	79	0.2	6.4	4.5	2.5	115.6	23.3	0.7
89F00128	M	5	-7	62	0.4	5.5	4.2	3.3	161.2	25.0	1.2
89F00148	M	5	-7	86	0.0	5.7	4.7	4.6	268.2	17.0	0.9
89F00259	M	5	-7	103	0.1	6.0	4.3	2.7	125.1	14.0	1.1
89F00261	M	5	-7	199	0.0	5.6	4.2	2.9	138.9	17.7	1.1
Mean				105.8	0.14	5.84	4.38	3.20	161.80	19.40	1.00
Std Dev				54.1	0.17	0.36	0.22	0.84	61.90	4.59	0.20
SEM				24.2	0.07	0.16	0.10	0.37	27.68	2.05	0.09
89F00120	M	6	-7	68	0.4	5.8	4.4	2.9	123.8	24.0	0.9
89F00143	M	6	-7	72	0.4	6.3	4.7	3.1	127.8	18.1	1.1
89F00149	M	6	-7	46	0.0	6.2	5.2	5.4	116.8	15.6	0.9
89F00177	M	6	-7	69	0.0	6.0	4.8	3.8	107.5	20.2	1.1
89F00263	M	6	-7	94	0.1	5.3	4.3	4.3	134.6	19.7	1.0
Mean				69.8	0.18	5.92	4.62	3.90	122.10	19.52	1.00
Std Dev				17.0	0.20	0.40	0.36	1.01	10.40	3.98	0.10
SEM				7.6	0.09	0.18	0.16	0.45	4.65	1.38	0.04

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00115	M	7	-7	84	0.4	5.9	4.2	2.6	134.5	25.4	1.3
89F00137	M	7	-7	75	0.3	5.8	4.5	3.5	107.9	19.2	1.1
89F00164	M	7	-7	62	0.1	5.7	4.4	3.6	86.4	21.7	1.0
89F00171	M	7	-7	147	0.0	6.1	4.8	3.6	118.1	20.7	0.9
89F00264	M	7	-7	47	0.1	5.6	4.1	2.8	113.4	16.6	0.9
Mean				83.0	0.18	5.82	4.40	3.22	112.06	20.72	1.04
Std Dev				38.4	0.16	0.19	0.27	0.48	17.45	3.25	0.17
SEM				17.2	0.07	0.09	0.12	0.22	7.80	1.45	0.07
89F00125	M	8	-7	95	0.4	5.7	4.0	2.4	126.8	18.7	1.3
89F00145	M	8	-7	34	0.3	5.4	3.9	2.5	107.9	19.4	1.2
89F00158	M	8	-7	44	0.0	5.0	4.6	11.1	128.5	22.5	1.1
89F00165	M	8	-7	72	0.1	6.1	4.9	3.9	95.9	20.1	1.0
89F00266	M	8	-7	59	0.0	5.3	4.1	3.3	166.7	16.8	1.0
Mean				60.8	0.16	5.50	4.30	4.64	125.16	19.50	1.12
Std Dev				24.0	0.18	0.42	0.43	3.66	26.90	2.08	0.13
SEM				10.7	0.08	0.19	0.19	1.64	12.03	0.93	0.06
89F00121	M	9	-7	60	0.2	6.5	4.7	2.6	140.1	21.6	1.1
89F00139	M	9	-7	22	0.2	5.7	4.2	2.8	128.3	18.5	1.1
89F00151	M	9	-7	58	0.0	4.9	3.9	4.0	321.7	18.2	1.1
89F00156	M	9	-7	38	0.0	6.4	4.8	3.0	111.4	15.4	1.3
89F00267	M	9	-7	145	0.1	6.2	4.5	2.7	122.5	19.0	0.7
Mean				64.6	0.10	5.94	4.42	3.02	164.80	18.54	1.06
Std Dev				47.6	0.10	0.66	0.37	0.57	88.32	2.21	0.22
SEM				21.3	0.04	0.29	0.17	0.25	39.50	0.99	0.10

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00124	M	10	-7	12.9	4.4	139.2	104	4.5	182.9	1.57
89F00136	M	10	-7	14.0	4.1	146.0	120	5.0	233.7	1.91
89F00142	M	10	-7	13.3	4.1	147.0	108	4.7	169.0	1.91
89F00168	M	10	-7	14.4	4.1	152.1	110	4.4	438.9	1.91
89F00175	M	10	-7	15.2	4.5	149.7	112	4.8	244.8	2.24
Mean				13.96	4.24	146.80	110.8	4.68	253.86	1.908
Std Dev				0.91	0.19	4.87	5.9	0.24	108.36	0.237
SEM				0.41	0.09	2.18	2.7	0.11	48.46	0.106



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00126	M	1	-7	NT	3.4	133.8	98	24.0*	29.8	0.03*
89F00130	M	1	-7	13.2	4.1	139.4	106	4.4	123.6	1.72
89F00140	M	1	-7	14.1	4.8	146.4	108	4.4	188.5	1.76
89F00155	M	1	-7	14.5	4.7	148.5	115	4.1	205.4	2.01
89F00166	M	1	-7	14.8	3.6	150.8	113	4.4	180.3	2.01
Mean				14.15	4.12	143.78	108.0	4.33	145.52	1.875
Std Dev				0.70	0.63	7.02	6.7	0.15	71.61	0.157
SEM				0.35	0.28	3.14	3.0	0.07	32.03	0.078
89F00118	M	2	-7	14.5	5.1	147.9	111	4.3	135.1	1.86
89F00132	M	2	-7	13.3	5.3	148.3	113	4.1	169.3	1.86
89F00141	M	2	-7	13.9	4.8	147.3	108	5.0	186.4	1.81
89F00176	M	2	-7	14.1	1.9	148.6	114	4.6	220.8	1.99
89F00257	M	2	-7	15.3	4.9	151.6	117	4.8	194.7	1.78
Mean				14.22	4.40	148.74	112.6	4.56	181.26	1.860
Std Dev				0.74	1.41	1.67	3.4	0.36	31.80	0.080
SEM				0.33	0.63	0.75	1.5	0.16	14.22	0.036
89F00129	M	3	-7	14.2	5.3	145.8	110	4.7	268.5	1.79
89F00147	M	3	-7	15.0	5.5	147.3	110	6.1	175.4	2.13
89F00154	M	3	-7	14.3	4.5	153.2	117	4.0	301.3	1.64
89F00172	M	3	-7	14.7	2.7	147.0	116	4.6	261.3	1.66
89F00173	M	3	-7	15.0	3.8	147.3	110	4.0	198.3	1.98
Mean				14.64	4.36	148.12	112.6	4.68	240.96	1.840
Std Dev				0.38	1.15	2.91	3.6	0.86	52.28	0.211
SEM				0.17	0.51	1.30	1.6	0.38	23.38	0.094

\* Value is considered to be an outlier and is not included in the group mean or statistical analysis.

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00127	M	4	-7	13.9	4.9	145.8	104	4.5	195.0	1.99
89F00131	M	4	-7	15.6	4.7	145.5	118	5.0	193.4	2.05
89F00157	M	4	-7	15.0	5.9	145.3	103	4.8	165.7	2.09
89F00169	M	4	-7	15.1	4.3	146.7	108	4.8	173.7	2.19
89F00258	M	4	-7	13.5	5.4	150.8	118	5.1	270.6	1.95
Mean				14.62	5.04	146.82	110.2	4.84	199.68	2.054
Std Dev				0.88	0.62	2.29	7.4	0.23	41.60	0.093
SEM				0.39	0.28	1.02	3.3	0.10	18.60	0.042
89F00116	M	5	-7	14.7	4.6	149.0	108	4.6	258.5	1.96
89F00128	M	5	-7	14.3	4.1	146.8	111	4.7	183.5	1.99
89F00148	M	5	-7	13.5	4.6	146.8	107	2.9	240.5	1.90
89F00259	M	5	-7	15.4	5.9	152.2	116	6.3	197.3	2.19
89F00261	M	5	-7	14.1	5.2	149.5	112	5.0	214.0	1.98
Mean				14.40	4.88	148.86	110.8	4.70	218.76	2.004
Std Dev				0.71	0.69	2.24	3.6	1.21	30.73	0.110
SEM				0.32	0.31	1.00	1.6	0.54	13.74	0.049
89F00120	M	6	-7	14.8	5.7	150.8	112	4.8	170.0	1.90
89F00143	M	6	-7	14.6	4.7	150.8	109	4.6	211.5	1.79
89F00149	M	6	-7	14.0	5.3	149.8	117	4.3	237.4	1.84
89F00177	M	6	-7	14.8	2.1	148.8	115	4.8	177.3	1.92
89F00263	M	6	-7	13.7	6.1	149.2	114	6.1	283.8	2.20
Mean				14.38	4.78	149.88	113.6	4.92	216.00	1.930
Std Dev				0.50	1.58	0.91	3.2	0.69	46.61	0.159
SEM				0.22	0.71	0.41	1.4	0.31	20.84	0.071

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00115	M	7	-7	14.9	3.9	147.1	108	5.3	159.1	1.93
89F00137	M	7	-7	13.7	4.5	147.8	109	4.5	208.1	1.98
89F00164	M	7	-7	14.6	3.4	148.3	115	4.5	238.0	2.05
89F00171	M	7	-7	15.4	3.4	145.9	111	4.3	164.8	1.95
89F00264	M	7	-7	14.5	5.3	147.7	107	4.6	175.7	1.44
Mean				14.62	4.10	147.36	110.0	4.64	189.14	1.870
Std Dev				0.62	0.81	0.92	3.2	0.38	33.25	0.245
SEM				0.28	0.36	0.41	1.4	0.17	14.87	0.109
89F00125	M	8	-7	14.7	4.7	145.3	110	5.6	238.6	1.96
89F00145	M	8	-7	13.5	5.4	145.0	108	4.5	188.0	2.03
89F00158	M	8	-7	14.7	4.7	146.4	109	6.7	287.4	2.10
89F00165	M	8	-7	14.9	4.1	147.3	114	3.8	197.0	1.56
89F00266	M	8	-7	14.5	4.5	146.7	112	4.6	180.2	1.79
Mean				14.46	4.68	146.14	110.6	5.04	218.24	1.888
Std Dev				0.55	0.47	0.97	2.4	1.13	44.75	0.216
SEM				0.25	0.21	0.43	1.1	0.50	20.01	0.097
89F00121	M	9	-7	14.4	5.0	153.7	106	4.6	189.4	2.14
89F00139	M	9	-7	13.9	4.3	148.8	111	4.5	146.8	1.97
89F00151	M	9	-7	12.3	4.5	147.5	109	3.4	138.6	2.06
89F00156	M	9	-7	14.9	5.2	151.3	110	4.2	168.8	2.02
89F00267	M	9	-7	14.4	4.9	151.6	110	5.4	284.1	1.71
Mean				13.98	4.78	150.58	109.2	4.42	185.54	1.980
Std Dev				1.00	0.37	2.45	1.9	0.72	58.55	0.163
SEM				0.45	0.17	1.09	0.9	0.32	26.19	0.073

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00124	M	10	0	42.4	19.8	57.2	124.2	3.5	1937.4	0.0	33.8
89F00136	M	10	0	50.7	25.2	54.5	83.5	5.2	1881.7	0.0	39.1
89F00142	M	10	0	49.9	27.1	82.0	344.7	8.7	2606.3	0.0	28.4
89F00168	M	10	0	67.9	18.6	65.8	97.1	3.7	2646.6	0.0	35.3
89F00175	M	10	0	62.2	11.2	46.5	42.0	4.8	1456.4	0.0	20.4
Mean				54.62	20.38	61.20	138.30	5.26	2105.7	0.00	31.40
Std Dev				10.26	6.25	13.52	119.14	2.02	510.7	0.00	7.25
SEM				4.59	2.79	6.04	53.28	0.90	228.4	0.00	3.24

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00126	M	1	0	51.7	35.5	40.8	235.6	0.4	6.0*	0.0	28.0
89F00130	M	1	0	32.6	10.6	67.8	84.0	4.7	1014.4	0.0	18.2
89F00140	M	1	0	43.0	16.9	40.2	155.8	5.9	1359.3	0.0	39.3
89F00155	M	1	0	31.9	19.5	61.0	169.0	8.3	2803.2	0.0	29.9
89F00166	M	1	0	56.6	14.1	42.3	81.5	4.8	1254.5	0.0	27.2
Mean				43.16	19.32	50.42	145.18	4.82	1607.8	0.00	28.52
Std Dev				11.09	9.63	13.01	64.53	2.86	809.9	0.00	7.53
SEM				4.96	4.31	5.82	28.86	1.28	404.9	0.00	3.37
89F00118	M	2	0	32.3	13.8	75.9	135.6	6.3	1461.4	0.0	38.2
89F00132	M	2	0	33.8	12.0	39.6	65.8	4.3	1038.5	0.0	36.4
89F00141	M	2	0	63.5	21.9	52.6	358.2	6.8	2245.9	0.0	27.6
89F00176	M	2	0	83.0	17.5	122.5	34.9	7.4	2149.8	0.0	26.8
89F00257	M	2	0	62.7	19.2	64.0	123.0	6.3	6933.9	0.0	48.6
Mean				55.06	16.88	70.92	143.50	6.22	2765.9	0.00	35.52
Std Dev				21.68	4.01	31.82	126.90	1.16	2382.6	0.00	8.91
SEM				9.70	1.79	14.23	56.75	0.52	1065.6	0.00	3.99
89F00129	M	3	0	63.9	17.5	28.7	98.7	6.5	1624.9	0.0	35.0
89F00147	M	3	0	56.5	59.5	78.1	272.1	11.7	12532.1	0.0	45.0
89F00154	M	3	0	26.3	13.9	54.8	77.6	4.9	3111.8	0.0	43.4
89F00172	M	3	0	63.3	14.6	34.5	83.7	6.7	1829.3	0.0	32.1
89F00173	M	3	0	44.9	14.3	41.3	82.2	4.8	1720.5	0.0	49.1
Mean				50.98	23.96	47.48	122.86	6.92	4163.7	0.00	40.92
Std Dev				15.77	19.92	19.69	83.80	2.81	4717.0	0.00	7.12
SEM				7.05	8.91	8.80	37.48	1.26	2109.5	0.00	3.18

\* Value is considered to be an outlier and is not included in the group mean or statistical analysis.

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00127	M	4	0	32.5	19.2	51.1	85.1	5.0	1790.2	0.0	40.2
89F00131	M	4	0	54.8	37.1	41.2	404.9	4.0	5832.8	0.0	32.8
89F00157	M	4	0	53.3	41.0	63.7	201.3	7.7	2167.6	0.0	29.6
89F00169	M	4	0	58.7	12.7	41.0	52.3	5.1	1782.9	0.0	32.0
89F00258	M	4	0	88.7	24.6	68.3	153.0	5.5	7222.8	0.0	34.3
Mean				59.60	26.72	53.06	178.92	5.46	3759.3	0.00	33.78
Std Dev				26.78	12.10	13.60	138.79	1.37	2579.3	0.00	3.97
SEM				9.29	5.41	5.61	62.07	0.61	1153.5	0.00	1.78
89F00116	M	5	0	42.2	25.6	89.6	101.3	3.9	2090.0	0.0	24.8
89F00128	M	5	0	33.3	21.5	47.9	97.4	8.4	3725.6	0.0	35.7
89F00148	M	5	0	31.3	25.1	42.2	267.2	5.4	3451.2	0.0	28.4
89F00259	M	5	0	63.5	31.3	56.3	120.0	4.5	17374.6	0.0	37.1
89F00261	M	5	0	54.9	19.0	139.4	39.7	5.0	5461.5	0.0	30.1
Mean				45.04	23.50	75.08	125.12	5.44	6420.6	0.00	31.22
Std Dev				13.90	4.90	40.37	84.92	1.75	6239.9	0.00	5.13
SEM				6.22	2.19	18.06	37.98	0.78	2790.6	0.00	2.29
89F00120	M	6	0	50.1	16.3	50.8	161.7	4.4	2146.4	0.0	28.5
89F00143	M	6	0	50.0	23.1	35.1	386.5	5.3	2203.6	0.0	37.3
89F00149	M	6	0	36.0	26.3	83.9	204.8	7.1	3951.5	0.0	38.8
89F00177	M	6	0	55.9	17.2	36.9	82.7	5.1	1367.6	0.0	33.2
89F00263	M	6	0	65.5	16.1	236.5	72.6	6.6	5013.9	0.0	31.2
Mean				51.50	19.80	88.64	181.66	5.70	2924.6	0.00	34.49
Std Dev				10.72	4.63	84.84	127.06	1.12	1513.3	0.00	1.26
SEM				4.79	2.07	27.95	56.82	0.50	670.2	0.00	1.90

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	P.y	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00115	M	7	0	59.9	25.6	58.5	162.5	4.5	2662.7	0.0	38.8
89F00137	M	7	0	27.9	22.2	89.1	282.0	6.2	2703.2	0.0	27.7
89F00164	M	7	0	39.7	11.6	56.6	47.0	5.8	758.5	0.0	30.4
89F00171	M	7	0	36.6	13.3	77.7	51.2	NT	1271.8	0.0	41.3
89F00264	M	7	0	67.8	20.0	98.4	34.3	5.5	6907.0	0.0	32.4
Mean				46.38	18.54	76.06	115.40	5.50	2860.6	0.00	34.12
Std Dev				16.76	5.94	18.43	106.48	0.73	2417.7	0.00	5.73
SEM				7.49	2.66	8.24	47.62	0.36	1081.2	0.00	2.56
89F00125	M	8	0	53.9	25.6	50.9	157.8	5.7	3862.0	0.0	23.4
89F00145	M	8	0	72.7	113.6	42.3	509.6	8.4	24913.3	0.0	37.2
89F00158	M	8	0	53.5	14.8	50.7	91.3	9.4	1078.7	0.0	34.4
89F00165	M	8	0	34.7	12.6	58.5	48.3	8.4	1055.4	0.0	39.3
89F00266	M	8	0	55.8	17.3	105.9	56.9	5.9	6953.3	0.0	25.2
Mean				54.12	36.78	61.66	172.78	7.56	7572.5	0.00	31.90
Std Dev				13.47	43.22	25.39	193.15	1.66	9993.7	0.00	7.18
SEM				6.02	19.33	11.35	86.38	0.74	4469.3	0.00	3.21
89F00121	M	9	0	56.0	21.1	59.2	252.8	4.5	2888.3	0.0	23.5
89F00139	M	9	0	47.5	26.9	62.0	277.8	6.9	3886.1	0.0	21.9
89F00151	M	9	0	41.3	12.4	39.6	55.2	6.1	1165.3	0.0	34.6
89F00156	M	9	0	24.3	12.5	84.1	121.6	5.3	1840.0	0.0	24.4
89F00267	M	9	0	65.3	48.1	73.4	97.0	9.5	13692.4	0.0	48.8
Mean				46.88	24.20	63.66	160.88	6.46	4694.4	0.00	30.64
Std Dev				15.52	14.70	16.69	98.63	1.92	5135.2	0.00	11.31
SEM				6.94	6.57	7.46	44.11	0.86	2296.5	0.00	5.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00124	M	10	0	99	0.0	6.0	4.3	2.6	121.3	16.3	0.9
89F00136	M	10	0	63	0.0	6.1	3.8	1.7	81.6	18.4	2.3
89F00142	M	10	0	28	0.0	6.3	4.8	3.3	117.5	22.4	1.0
89F00168	M	10	0	118	0.0	5.6	3.4	1.6	103.1	16.8	1.0
89F00175	M	10	0	22	0.0	5.8	3.5	1.5	120.1	15.6	1.9
Mean				66.0	0.00	5.96	3.96	2.14	108.72	17.90	1.42
Std Dev				42.4	0.00	0.27	0.59	0.78	16.82	2.72	0.64
SEM				18.9	0.00	0.12	0.26	0.35	7.52	1.22	0.29



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00126	M	1	0	50	0.0	5.6	4.5	3.9	120.0	13.7	1.0
89F00130	M	1	0	101	0.0	6.2	4.1	1.9	114.0	17.4	1.1
89F00140	M	1	0	68	0.0	6.0	4.8	4.1	122.3	19.7	0.9
89F00155	M	1	0	57	0.0	5.7	4.0	2.3	103.0	13.9	1.0
89F00166	M	1	0	61	0.0	6.5	4.1	1.7	129.1	20.5	1.0
Mean				67.4	0.00	6.00	4.30	2.78	117.68	17.04	1.00
Std Dev				19.9	0.00	0.37	0.34	1.14	9.83	3.17	0.07
SEM				8.9	0.00	0.16	0.15	0.51	4.39	1.42	0.03
89F00118	M	2	0	57	0.1	5.7	4.4	3.4	125.6	17.7	0.9
89F00132	M	2	0	40	0.0	5.6	3.6	1.8	82.4	13.4	0.5
89F00141	M	2	0	115	0.1	6.4	4.8	3.0	94.5	17.9	4.2
89F00176	M	2	0	89	0.0	6.1	3.7	1.6	122.9	18.1	0.9
89F00257	M	2	0	161	0.0	5.9	4.1	2.3	131.4	15.1	0.9
Mean				92.4	0.04	5.94	4.12	2.42	111.36	16.44	1.48
Std Dev				48.0	0.05	0.32	0.50	0.77	21.57	2.09	1.53
SEM				21.5	0.02	0.14	0.22	0.34	9.64	0.94	0.68
89F00129	M	3	0	74	0.1	6.0	4.1	2.2	119.3	13.3	0.8
89F00147	M	3	0	30	0.0	5.7	3.5	1.7	113.4	15.7	1.0
89F00154	M	3	0	54	0.0	6.1	3.9	1.7	129.1	10.7	0.9
89F00172	M	3	0	35	0.0	0.4*	3.7	-1.1*	112.4	21.3	1.1
89F00173	M	3	0	140	0.0	6.1	3.5	1.3	124.6	17.8	1.0
Mean				66.6	0.02	5.98	3.74	1.73	119.76	15.76	0.96
Std Dev				44.6	0.04	0.19	0.26	0.37	7.17	4.08	0.11
SEM				19.9	0.02	0.09	0.12	0.18	3.21	1.82	0.05

\* Value is considered to be an outlier and is not included in the group mean or statistical analysis.

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00127	M	4	0	35	0.0	5.8	4.0	2.2	123.0	16.6	0.8
89F00131	M	4	0	36	0.1	5.6	3.8	2.1	118.4	13.7	0.9
89F00157	M	4	0	52	0.0	5.8	3.6	1.7	135.6	24.4	1.1
89F00169	M	4	0	85	0.0	5.7	3.8	2.0	110.5	17.9	1.2
89F00258	M	4	0	104	0.0	5.5	4.1	3.1	138.5	12.7	0.9
Mean				62.4	0.02	5.68	3.86	2.22	125.20	17.06	0.98
Std Dev				30.8	0.04	0.13	0.19	0.53	11.75	4.61	0.16
SEM				13.8	0.02	0.06	0.09	0.24	5.25	2.06	0.07
89F00116	M	5	0	75	0.1	6.0	4.4	2.7	106.9	19.6	0.9
89F00128	M	5	0	30	0.1	5.7	4.3	3.1	109.3	17.9	1.0
89F00148	M	5	0	70	0.0	6.2	4.3	2.3	110.1	15.1	1.6
89F00259	M	5	0	66	0.0	6.1	3.8	1.7	141.5	8.6	0.8
89F00261	M	5	0	133	0.0	5.7	3.9	2.1	141.4	11.7	0.8
Mean				74.8	0.04	5.94	4.14	2.38	121.84	14.58	1.02
Std Dev				37.1	0.05	0.23	0.27	0.54	17.54	4.49	0.33
SEM				16.6	0.02	0.10	0.12	0.24	8.02	2.01	0.15
89F00120	M	6	0	34	0.1	5.5	4.4	3.7	109.5	14.5	0.9
89F00143	M	6	0	53	0.0	6.5	4.4	2.0	96.2	16.3	1.0
89F00149	M	6	0	67	0.0	6.4	4.7	2.7	112.0	16.4	1.1
89F00177	M	6	0	100	0.0	6.2	3.8	1.6	133.4	17.5	1.0
89F00263	M	6	0	143	0.0	5.5	3.8	2.3	133.4	10.7	0.9
Mean				79.4	0.02	6.02	4.22	2.46	116.90	15.08	0.98
Std Dev				43.0	0.04	0.49	0.40	0.80	16.22	2.67	0.08
SEM				19.2	0.02	0.22	0.18	0.36	7.25	1.20	0.04

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00115	M	7	0	74	0.1	6.2	4.5	2.6	112.4	21.6	1.2
89F00137	M	7	0	44	0.0	5.7	4.0	2.2	109.9	17.5	0.8
89F00164	M	7	0	128	0.0	5.8	3.8	1.9	112.0	16.9	0.9
89F00171	M	7	0	132	0.0	6.1	3.9	1.7	119.8	16.1	0.8
89F00264	M	7	0	106	0.0	6.0	3.7	1.6	139.2	12.7	1.0
Mean				96.8	0.02	5.96	3.98	2.00	118.66	16.96	0.94
Std Dev				37.4	0.04	0.21	0.31	0.41	12.08	3.19	0.17
SEM				16.7	0.02	0.09	0.14	0.18	5.40	1.43	0.07
89F00125	M	8	0	35	0.1	5.4	3.8	2.3	52.0	7.4	0.9
89F00145	M	8	0	34	0.0	5.3	3.7	2.3	110.5	22.1	1.0
89F00158	M	8	0	82	0.0	5.7	3.9	2.2	108.2	22.9	1.1
89F00165	M	8	0	67	0.0	6.0	3.8	1.7	126.5	15.9	1.5
89F00266	M	8	0	90	0.0	6.3	4.2	2.1	131.9	13.0	0.9
Mean				61.6	0.02	5.74	3.88	2.12	105.82	16.26	1.08
Std Dev				26.1	0.04	0.42	0.19	0.25	31.75	6.47	0.25
SEM				11.7	0.02	0.19	0.09	0.11	14.20	2.89	0.11
89F00121	M	9	0	93	0.0	6.3	4.9	3.4	131.6	14.9	0.9
89F00139	M	9	0	34	0.1	6.0	4.5	3.0	109.8	16.4	0.8
89F00151	M	9	0	70	0.0	5.8	3.5	1.5	96.3	13.5	1.8
89F00156	M	9	0	75	0.0	6.0	4.0	2.0	105.5	16.3	0.9
89F00267	M	9	0	171	0.0	5.9	4.3	2.7	156.5	11.1	0.5
Mean				88.6	0.02	6.00	4.24	2.52	119.94	14.44	0.98
Std Dev				50.8	0.04	0.19	0.53	0.77	24.20	2.21	0.49
SEM				22.7	0.02	0.08	0.24	0.34	10.82	0.99	0.22

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00124	M	10	0	13.8	3.9	148.6	111	3.9	184.3	1.69
89F00136	M	10	0	12.9	3.1	152.4	113	3.6	284.5	1.71
89F00142	M	10	0	14.9	4.5	165.7	124	4.6	117.6	1.85
89F00168	M	10	0	13.4	3.5	149.2	113	4.0	838.0	1.72
89F00175	M	10	0	13.2	3.3	150.3	112	3.7	282.9	1.43
Mean				13.64	3.65	153.24	114.6	3.96	341.46	1.680
Std Dev				0.78	0.55	7.11	5.3	0.39	286.37	0.153
SEM				0.35	0.25	3.18	2.4	0.17	128.07	0.069

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00126	M	1	0	13.3	5.3	151.3	119	4.5	85.3	1.52
89F00130	M	1	0	14.4	3.4	152.8	113	4.1	628.1	1.88
89F00140	M	1	0	14.2	1.9	151.4	116	3.9	220.3	1.81
89F00155	M	1	0	13.4	4.5	151.2	116	3.5	177.3	1.95
89F00166	M	1	0	14.5	3.2	151.5	110	4.2	853.2	1.67
Mean				13.96	3.66	151.64	114.8	4.04	392.84	1.766
Std Dev				0.57	1.30	0.66	3.4	0.37	330.94	0.172
SEM				0.25	0.58	0.29	1.5	0.17	148.00	0.077
89F00118	M	2	0	15.0	5.1	149.0	115	4.6	178.7	1.86
89F00132	M	2	0	12.6	3.6	150.7	115	3.2	449.1	1.86
89F00141	M	2	0	14.7	2.2	149.5	113	4.2	172.3	1.75
89F00176	M	2	0	14.3	3.4	150.3	108	3.8	928.3	1.37
89F00257	M	2	0	13.8	4.0	148.8	110	4.4	187.5	1.09
Mean				14.08	3.66	149.66	112.2	4.04	383.18	1.586
Std Dev				0.94	1.05	0.82	3.1	0.55	326.37	0.343
SEM				0.42	0.47	0.37	1.4	0.25	145.96	0.153
89F00129	M	3	0	13.3	2.8	152.1	119	3.7	972.8	1.53
89F00147	M	3	0	13.0	4.0	154.3	111	3.9	94.6	1.84
89F00154	M	3	0	13.6	3.4	151.0	113	4.0	599.6	1.95
89F00172	M	3	0	13.6	3.5	149.5	113	4.1	558.6	1.64
89F00173	M	3	0	13.3	3.3	154.3	108	3.7	516.0	1.47
Mean				13.36	3.40	152.24	112.8	3.88	548.32	1.686
Std Dev				0.25	0.43	2.09	4.0	0.18	312.18	0.204
SEM				0.11	0.19	0.94	1.8	0.08	139.61	0.091

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00127	M	4	0	13.5	2.3	149.4	117	3.8	1062.8	1.45
89F00131	M	4	0	13.4	3.8	150.2	117	3.4	402.8	1.95
89F00157	M	4	0	13.4	4.5	152.7	118	4.3	133.6	2.19
89F00169	M	4	0	13.3	4.1	153.0	113	3.9	667.9	1.76
89F00258	M	4	0	13.0	4.1	149.2	111	3.9	202.1	1.62
Mean				13.32	3.76	150.90	115.2	3.86	493.84	1.794
Std Dev				0.19	0.85	1.82	3.0	0.32	379.86	0.288
SEM				0.09	0.38	0.81	1.4	0.14	169.88	0.129
89F00116	M	5	0	14.3	3.9	150.1	113	4.1	209.1	1.83
89F00128	M	5	0	13.5	2.7	153.0	117	3.9	884.9	1.77
89F00148	M	5	0	13.4	4.5	151.0	113	3.9	116.0	2.07
89F00259	M	5	0	13.1	4.0	149.3	113	3.9	1077.4	1.61
89F00261	M	5	0	13.8	3.7	149.8	113	4.0	756.4	1.53
Mean				13.62	3.76	150.64	113.8	3.96	608.76	1.762
Std Dev				0.45	0.66	1.46	1.8	0.09	424.33	0.210
SEM				0.20	0.30	0.65	0.8	0.04	189.76	0.094
89F00120	M	6	0	14.2	3.3	151.4	119	3.9	133.7	1.57
89F00143	M	6	0	14.2	2.0	151.7	117	4.4	108.4	1.83
89F00149	M	6	0	13.6	5.1	155.2	116	3.4	47.8	2.11
89F00177	M	6	0	14.0	3.3	153.0	113	4.0	1067.1	1.62
89F00263	M	6	0	13.5	4.6	148.6	109	3.7	94.1	1.67
Mean				13.90	3.66	151.98	114.8	3.88	290.22	1.760
Std Dev				0.33	1.22	2.41	3.9	0.37	435.41	0.219
SEM				0.15	0.55	1.08	1.7	0.17	194.72	0.098

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00115	M	7	0	14.7	4.2	153.2	118	4.6	107.1	1.98
89F00137	M	7	0	13.7	1.6	150.5	117	3.9	89.8	1.77
89F00164	M	7	0	13.9	3.2	153.9	114	4.1	1060.6	1.98
89F00171	M	7	0	13.9	3.6	154.3	112	3.6	1017.7	1.61
89F00264	M	7	0	14.5	4.8	147.0	109	4.2	1016.9	1.51
Mean				14.14	3.48	151.78	114.0	4.08	658.42	1.790
Std Dev				4.43	1.21	3.06	3.7	0.37	511.52	0.185
SEM				0.19	0.54	1.37	1.6	0.17	228.76	0.083
89F00125	M	8	0	13.2	3.3	154.8	118	4.1	435.2	1.60
89F00145	M	8	0	13.1	1.8	147.7	117	4.2	55.6	1.62
89F00158	M	8	0	13.6	3.6	154.3	114	4.0	1191.4	1.82
89F00165	M	8	0	13.5	4.0	149.2	118	3.9	836.3	1.78
89F00266	M	8	0	13.4	4.4	148.2	110	4.5	917.7	1.45
Mean				13.36	3.42	150.84	115.4	4.14	687.24	1.654
Std Dev				0.21	1.00	3.43	3.4	0.23	444.97	0.149
SEM				0.09	0.45	1.54	1.5	0.10	199.00	0.067
89F00121	M	9	0	14.5	4.2	154.5	117	4.0	138.7	1.96
89F00139	M	9	0	13.8	1.6	150.2	118	3.6	105.9	1.66
89F00151	M	9	0	12.6	3.6	154.3	113	3.4	878.9	1.98
89F00156	M	9	0	14.0	4.5	151.3	113	3.6	1079.5	1.98
89F00267	M	9	0	13.7	3.4	143.9	110	3.7	111.3	1.35
Mean				13.72	3.46	150.84	114.2	3.66	462.86	1.786
Std Dev				0.70	1.13	4.31	3.3	0.22	476.82	0.279
SEM				0.31	0.51	1.93	1.5	0.10	213.24	0.125

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00124	M	10	1	49.7	26.1	50.8	307.2	3.7	2471.7	0.0	29.4
89F00136	M	10	1	119.6	80.8	52.4	154.7	4.3	2284.2	0.0	47.6
89F00142	M	10	1	39.3	17.9	72.5	152.8	4.6	1403.1	0.0	24.6
89F00168	M	10	1	62.0	15.9	69.9	93.1	5.0	1798.1	0.0	34.4
89F00175	M	10	1	46.3	9.7	54.4	42.3	8.4	1184.7	0.0	78.7
Mean				63.38	30.08	60.00	150.02	5.20	1828.4	0.00	42.94
Std Dev				32.49	28.95	10.34	99.47	1.85	551.8	0.00	21.75
SEM				14.53	12.95	4.63	44.49	0.83	246.8	0.00	9.73



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00126	M	1	1	47.6	52.6	3.5	103.6	1.8	3038.6	0.0	21.5
89F00130	M	1	1	31.2	20.0	85.9	68.3	4.9	634.8	0.0	18.0
89F00140	M	1	1	37.8	23.3	61.0	97.1	4.1	667.4	0.0	33.7
89F00155	M	1	1	37.5	46.9	67.1	109.3	7.5	1674.6	0.0	42.5
89F00166	M	1	1	50.2	28.4	54.6	72.1	5.5	1032.2	0.0	32.6
Mean				40.86	34.24	54.42	90.08	4.76	1409.5	0.00	29.66
Std Dev				7.85	14.61	30.77	18.70	2.08	1002.2	0.00	9.90
SEM				3.51	6.53	13.76	8.36	0.93	448.2	0.00	4.43
89F00118	M	2	1	33.0	27.0	94.8	173.4	5.9	1353.2	0.0	32.6
89F00132	M	2	1	38.4	28.8	73.3	79.1	2.9	735.8	0.0	31.7
89F00141	M	2	1	139.3	181.0	75.3	275.3	3.9	2076.8	0.0	20.6
89F00176	M	2	1	65.1	36.9	131.2	32.9	8.0	1042.7	0.0	28.2
89F00257	M	2	1	41.7	27.7	72.2	67.7	5.8	4178.8	0.0	47.0
Mean				63.50	60.28	89.36	125.68	5.30	1877.5	0.00	32.02
Std Dev				44.11	67.60	25.15	98.49	1.98	1379.4	0.00	9.62
SEM				19.73	30.23	11.25	44.05	0.88	616.9	0.00	4.30
89F00129	M	3	1	60.5	50.9	41.6	307.2	5.0	2364.0	0.0	40.4
89F00147	M	3	1	54.4	52.4	71.2	50.0	10.7	1796.9	0.0	30.7
89F00154	M	3	1	27.4	23.8	54.0	61.2	4.2	905.6	0.0	30.2
89F00172	M	3	1	55.7	38.5	45.3	42.7	7.6	1009.0	0.0	29.6
89F00173	M	3	1	0.8	30.7	49.6	45.0	8.0	1064.9	0.0	46.5
Mean				39.76	39.26	52.34	101.22	7.10	1428.1	0.00	35.48
Std Dev				25.34	12.46	11.52	115.37	2.59	631.0	0.00	7.60
SEM				11.33	5.57	5.15	51.59	1.16	282.2	0.00	3.40

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00127	M	4	1	33.0	18.3	52.1	103.9	4.6	1377.3	0.0	10.4
89F00131	M	4	1	91.1	40.0	39.0	245.4	3.3	17018.0	0.0	34.1
89F00157	M	4	1	70.9	47.6	50.6	378.5	6.4	2533.9	0.0	41.8
89F00169	M	4	1	62.5	14.8	41.9	77.0	7.6	1432.7	0.0	39.1
89F00258	M	4	1	56.8	16.1	53.1	65.8	4.8	2207.1	0.0	40.2
Mean				62.86	27.36	47.34	174.12	5.34	4913.8	0.00	33.12
Std Dev				21.16	15.30	6.43	135.04	1.68	6784.7	0.00	13.02
SEM				9.46	6.84	2.88	60.39	0.75	3034.2	0.00	5.82
89F00116	M	5	1	47.5	26.9	78.4	211.5	2.5	1921.6	0.0	22.1
89F00128	M	5	1	33.6	20.2	40.0	67.5	6.5	1542.6	0.0	37.5
89F00148	M	5	1	37.8	15.0	38.6	85.5	5.9	3071.1	0.0	32.1
89F00259	M	5	1	76.8	37.1	36.8	87.2	3.2	5296.0	0.0	50.1
89F00261	M	5	1	29.0	8.5	106.1	33.8	3.2	1303.5	0.0	35.5
Mean				44.94	21.54	59.98	97.10	4.26	2627.0	0.00	35.46
Std Dev				19.07	11.02	31.06	67.46	1.81	1639.0	0.00	10.10
SEM				8.53	4.93	13.89	30.17	0.81	733.0	0.00	4.52
89F00120	M	6	1	53.1	17.9	34.5	258.6	3.6	2153.8	0.0	39.9
89F00143	M	6	1	24.7	34.3	27.1	172.6	1.6	1645.0	0.0	31.5
89F00149	M	6	1	47.0	37.2	66.5	241.6	5.5	4823.9	0.0	41.2
89F00177	M	6	1	43.0	13.5	35.2	51.8	6.1	952.7	0.0	35.5
89F00263	M	6	1	38.3	8.9	212.0	50.0	6.0	1248.1	0.0	31.7
Mean				41.22	22.36	75.08	154.92	4.56	2164.7	0.00	35.96
Std Dev				10.71	12.67	78.02	100.27	1.94	1553.3	0.00	4.51
SEM				4.79	5.67	34.89	44.84	0.87	694.6	0.00	2.02

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00115	M	7	1	55.7	41.2	66.4	200.0	4.7	1805.9	0.0	26.4
89F00137	M	7	1	24.4	25.3	104.8	101.5	1.1	1046.4	0.0	21.8
89F00164	M	7	1	41.5	63.4	76.1	60.9	6.0	600.0	0.0	32.4
89F00171	M	7	1	28.3	30.0	94.9	54.4	7.0	575.5	0.0	39.4
89F00264	M	7	1	39.0	16.5	106.9	87.7	3.2	1250.9	0.0	31.6
Mean				37.78	35.28	89.82	100.90	4.40	1055.7	0.00	30.32
Std Dev				12.30	18.07	17.88	58.65	2.33	509.7	0.00	6.64
SEM				5.50	8.08	8.00	26.23	1.04	227.9	0.00	2.97
89F00125	M	8	1	59.7	55.9	77.3	259.3	4.8	2580.0	0.0	25.7
89F00145	M	8	1	59.7	55.2	53.5	150.7	6.1	1190.2	0.0	29.0
89F00158	M	8	1	55.6	33.8	61.0	79.4	6.9	3017.1	0.0	32.8
89F00165	M	8	1	45.4	51.4	76.7	241.6	9.3	1792.8	0.0	37.2
89F00266	M	8	1	40.0	27.3	120.5	225.8	3.3	3624.2	0.0	28.5
Mean				52.08	44.72	77.80	191.36	6.08	2440.9	0.00	30.64
Std Dev				8.93	13.25	25.97	75.02	2.26	966.4	0.00	4.45
SEM				3.99	5.93	11.61	33.55	1.01	432.2	0.00	1.99
89F00121	M	9	1	57.5	30.6	59.0	275.5	4.1	2637.1	0.0	28.1
89F00139	M	9	1	45.6	46.6	97.5	100.6	4.0	892.1	0.0	19.0
89F00151	M	9	1	34.6	31.1	55.5	49.3	8.9	652.5	0.0	28.3
89F00156	M	9	1	23.3	22.7	100.3	64.3	4.5	725.5	0.0	17.7
89F00267	M	9	1	40.4	41.8	77.3	88.1	4.6	3445.6	0.0	36.1
Mean				40.28	34.56	77.92	115.56	5.22	1670.6	0.00	25.84
Std Dev				12.70	9.56	20.89	91.62	2.07	1286.5	0.00	7.57
SEM				5.68	4.28	9.34	40.97	0.93	575.3	0.00	3.39

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00124	M	10	1	71	0.0	6.0	4.6	3.1	137.9	14.2	1.1
89F00136	M	10	1	105	0.0	5.7	3.8	2.0	106.2	20.3	2.3
89F00142	M	10	1	31	0.1	5.6	4.4	3.5	118.9	12.7	1.0
89F00168	M	10	1	55	0.0	5.6	3.5	1.7	124.5	17.9	1.5
89F00175	M	10	1	49	0.0	6.3	3.9	1.7	122.9	17.7	2.0
Mean				62.2	0.02	5.84	4.04	2.40	122.08	16.56	1.58
Std Dev				27.9	0.04	0.30	0.45	0.84	11.39	3.06	0.56
SEM				12.5	0.02	0.14	0.20	0.38	5.09	1.37	0.25

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00126	M	1	1	41	0.1	5.0	3.4	2.2	85.4	11.8	0.8
89F00130	M	1	1	72	0.0	6.0	3.9	1.8	108.4	16.3	1.5
89F00140	M	1	1	46	0.0	5.3	4.2	4.1	154.3	16.0	1.0
89F00155	M	1	1	64	0.0	5.7	3.9	2.2	99.0	21.7	1.1
89F00166	M	1	1	59	0.0	6.3	3.8	1.5	105.6	11.6	1.0
Mean				56.4	0.02	5.66	3.84	2.36	110.54	15.48	1.08
Std Dev				12.8	0.04	0.52	0.29	1.02	26.02	4.13	0.26
SEM				5.7	0.02	0.23	0.13	0.45	11.64	1.85	0.12
89F00118	M	2	1	67	0.0	5.8	3.9	2.0	75.8	14.7	0.9
89F00132	M	2	1	54	0.0	5.8	4.0	2.3	134.6	11.4	1.1
89F00141	M	2	1	47	0.0	6.1	4.3	2.4	126.9	11.6	1.1
89F00176	M	2	1	34	0.1	6.0	3.8	1.7	128.9	20.0	1.0
89F00257	M	2	1	111	0.6	5.8	3.5	1.6	131.0	15.8	0.9
Mean				62.6	0.14	5.90	3.90	2.00	119.44	14.70	1.00
Std Dev				29.6	0.26	0.14	0.29	0.35	24.56	3.53	0.10
SEM				13.2	0.12	0.06	0.13	0.16	10.98	1.58	0.04
89F00129	F	3	1	42	0.0	5.9	3.8	1.8	98.2	13.0	0.9
89F00144	F	3	1	47	0.0	6.6	3.4	1.1	126.3	18.6	1.0
89F00154	F	3	1	46	0.0	6.1	3.7	1.5	130.2	11.2	0.8
89F00172	F	3	1	27	0.1	6.0	3.5	1.5	115.0	21.4	1.1
89F00173	M	3	1	65	0.0	5.8	3.4	1.4	109.9	15.2	1.0
Mean				45.4	0.02	6.08	3.56	1.46	115.92	15.88	0.96
Std Dev				13.6	0.04	0.31	0.18	0.25	12.87	4.14	0.11
SEM				6.1	0.02	0.14	0.08	0.11	5.76	1.85	0.05

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00127	M	4	1	30	0.0	5.3	1.6	0.4	18.9	14.7	0.9
89F00131	M	4	1	40	0.0	5.3	3.9	2.8	115.0	11.0	1.2
89F00157	M	4	1	55	0.0	5.5	3.9	2.4	79.7	19.9	1.8
89F00169	M	4	1	53	0.1	6.0	4.1	2.3	108.4	26.3	1.9
89F00258	M	4	1	111	0.1	6.1	4.0	1.9	124.7	13.9	1.5
Mean				51.8	0.04	5.64	2.92	1.96	89.34	17.16	1.46
Std Dev				31.4	0.55	0.38	1.67	0.73	42.80	6.03	0.42
SEM				14.2	0.02	0.17	0.49	0.42	19.14	2.70	0.19
89F00116	M	5			0.0	5.6	4.6	2.6	94.3	17.9	0.8
89F00128	M	5	1	33	0.0	5.5	3.8	2.1	99.9	14.4	1.0
89F00148	M	5	1	88	0.5	6.5	4.1	1.6	126.9	11.3	1.4
89F00259	M	5	1	60	0.5	5.8	3.5	1.5	129.8	9.9	1.4
89F00261	M	5	1	80	0.0	5.1	3.4	1.9	120.4	12.5	1.2
Mean				62.4	0.12	5.70	3.76	1.94	114.26	13.20	1.16
Std Dev				22.4	0.22	0.51	0.30	0.44	16.15	3.10	0.26
SEM				10.0	0.10	0.23	0.14	0.20	7.22	1.39	0.12
89F00120	M	6	1	80	0.0	5.5	4.2	3.1	103.6	11.4	0.8
89F00143	M	6	1	50	0.0	5.2	4.4	6.0	144.7	15.1	1.2
89F00149	M	6	1	53	0.0	5.7	4.1	2.4	96.6	17.4	1.0
89F00177	M	6	1	74	0.0	6.0	3.9	1.9	109.1	15.1	1.3
89F00263	M	6	1	129	0.6	6.0	3.8	1.7	111.2	12.4	0.9
Mean				77.2	0.12	5.68	4.08	3.02	113.04	14.28	1.04
Std Dev				31.7	0.27	0.34	0.24	1.75	18.58	2.39	0.21
SEM				14.2	0.12	0.15	0.11	0.78	8.31	1.07	0.09

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00115	M	7	1	76	0.0	5.5	3.6	1.9	86.9	16.4	0.9
89F00137	M	7	1	73	0.0	5.5	4.1	2.9	109.5	16.3	1.0
89F00164	M	7	1	47	0.1	5.8	3.7	1.7	92.4	21.3	1.2
89F00171	M	7	1	63	0.0	5.9	3.7	1.7	118.5	14.3	1.6
89F00264	M	7	1	62	0.6	5.8	3.5	1.5	113.1	15.8	0.9
Mean				64.2	0.14	5.70	3.72	1.94	104.08	16.82	1.12
Std Dev				11.4	0.26	0.19	0.23	0.55	13.76	2.64	0.29
SEM				5.1	0.12	0.08	0.10	0.25	6.12	1.18	0.13
89F00125	M	8	1	60	0.0	5.7	3.7	1.9	84.6	13.5	0.8
89F00145	M	8	1	45	0.0	5.0	3.7	2.7	114.2	14.4	1.0
89F00158	M	8	1	69	0.0	6.0	3.7	1.7	116.8	17.7	1.1
89F00165	M	8	1	34	0.1	6.0	3.6	1.5	104.7	17.3	1.0
89F00266	M	8	1	122	0.5	5.8	4.0	2.3	135.3	10.9	0.7
Mean				66.0	0.12	5.70	3.74	2.02	111.12	14.76	0.92
Std Dev				34.1	0.22	0.41	0.15	0.48	18.51	2.82	0.16
SEM				15.2	0.10	0.18	0.07	0.22	8.28	1.26	0.07
89F00121	M	9	1	102	0.0	5.9	4.3	2.9	114.9	13.4	0.9
89F00139	M	9	1	36	0.0	6.6	4.2	1.8	129.6	15.6	1.1
89F00151	M	9	1	42	0.0	6.2	3.3	1.1	103.8	11.7	1.4
89F00156	M	9	1	31	0.0	6.4	3.4	1.2	130.9	17.4	0.9
89F00267	M	9	1	173	0.5	6.4	3.9	1.6	135.6	10.8	0.8
Mean				76.8	0.10	6.30	3.82	1.72	122.96	13.78	1.02
Std Dev				61.0	0.22	0.26	0.45	0.72	13.22	2.73	0.24
SEM				27.3	0.10	0.12	0.20	0.32	5.91	1.22	0.11

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CaL	PHOS	NA	CL	K	IRON	MAG
89F00124	M	10	1	13.7	5.0	153.1	116	4.1	179.5	1.67
89F00136	M	10	1	12.4	3.9	149.5	113	3.8	142.3	1.65
89F00142	M	10	1	13.3	4.7	153.8	114	4.2	160.5	1.68
89F00168	M	10	1	13.7	3.3	150.1	112	3.9	578.3	1.66
89F00175	M	10	1	13.2	2.6	151.1	112	3.8	482.2	1.65
Mean				13.26	3.90	151.52	113.4	3.96	308.56	1.662
Std Dev				0.53	0.99	1.87	1.7	0.18	205.63	0.013
SEM				0.24	0.44	0.84	0.7	0.08	91.96	0.006



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00126	M	1	1	NT	2.7	123.4	102	84.2*	169.4	NT
89F00130	M	1	1	13.7	3.4	149.5	114	3.8	273.9	1.82
89F00140	M	1	1	14.3	3.7	149.8	113	4.0	176.5	1.86
89F00155	M	1	1	13.4	3.5	149.4	113	4.0	81.9	1.86
89F00166	M	1	1	13.9	3.7	155.4	117	3.4	336.5	1.97
Mean				13.83	3.40	145.50	111.8	3.80	207.64	1.878
Std Dev				0.38	0.41	12.61	5.7	0.28	99.04	0.064
SEM				0.19	0.18	5.64	2.6	0.14	44.29	0.032
89F00118	M	2	1	13.6	4.9	150.5	120	3.7	256.4	1.88
89F00132	M	2	1	14.6	4.7	151.8	114	4.4	96.0	2.03
89F00141	M	2	1	13.0	5.1	146.2	116	4.5	200.9	1.84
89F00176	M	2	1	12.9	3.6	148.4	108	3.7	315.6	1.77
89F00257	M	2	1	12.8	3.6	149.0	119	4.1	695.6	1.38
Mean				13.38	4.38	149.18	115.4	4.08	312.90	1.780
Std Dev				0.75	0.73	2.13	4.8	0.38	228.72	0.243
SEM				0.34	0.32	0.95	2.1	0.17	102.29	0.109
89F00129	M	3	1	12.8	3.2	151.5	117	3.5	71.1	1.54
89F00147	M	3	1	13.1	4.0	152.9	114	3.8	782.9	1.71
89F00154	M	3	1	13.3	2.9	151.6	115	4.5	331.9	1.47
89F00172	M	3	1	12.8	3.4	151.4	117	3.7	420.4	1.80
89F00173	M	3	1	12.8	3.3	151.0	110	3.3	525.1	1.42
Mean				12.96	3.36	151.68	114.6	3.76	426.28	1.588
Std Dev				0.23	0.40	0.72	2.9	0.46	260.79	0.161
SEM				0.10	0.18	0.32	1.3	0.20	116.63	0.072

\* Value is considered to be an outlier and is not included in the group mean or statistical analysis.

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00127	M	4	1	12.4	3.4	150.9	118	4.4	591.2	1.46
89F00131	M	4	1	13.3	3.5	145.2	112	4.2	122.8	1.63
89F00157	M	4	1	12.3	4.4	152.3	119	5.8	20.4	1.94
89F00169	M	4	1	12.9	3.8	151.5	118	3.4	412.0	1.88
89F00258	M	4	1	13.8	3.6	149.4	119	4.0	1078.5	1.64
Mean				12.94	3.74	149.86	117.2	4.36	444.98	1.710
Std Dev				0.63	0.40	2.81	2.9	0.89	420.68	0.197
SEM				0.28	0.18	1.26	1.3	0.40	188.13	0.088
89F00116	M	5	1	13.8	4.2	153.8	116	4.0	177.9	1.91
89F00128	M	5	1	13.0	3.1	155.6	121	3.0	682.4	1.72
89F00148	M	5	1	13.8	3.7	154.1	116	3.8	810.6	1.59
89F00259	M	5	1	13.2	4.0	147.8	115	4.3	1142.5	1.53
89F00261	M	5	1	11.9	3.7	141.8	111	3.8	652.4	1.51
Mean				13.14	3.74	150.62	115.8	3.78	693.16	1.652
Std Dev				0.78	0.42	5.76	3.6	0.48	347.48	0.166
SEM				0.35	0.19	2.58	1.6	0.22	155.40	0.074
89F00120	M	6	1	12.7	4.0	154.4	118	3.7	123.5	1.77
89F00143	M	6	1	13.1	3.7	151.4	105	7.6	183.7	2.26
89F00149	M	6	1	12.4	4.6	156.6	119	3.4	113.1	1.83
89F00177	M	6	1	12.6	3.0	150.3	116	3.8	484.8	1.65
89F00263	M	6	1	14.5	4.7	149.5	114	4.4	1059.3	1.79
Mean				13.06	4.00	152.44	114.4	4.58	392.88	1.860
Std Dev				0.84	0.70	2.98	5.6	1.73	402.23	0.233
SEM				0.38	0.31	1.33	2.5	0.77	179.88	0.104

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00115	M	7	1	12.1	4.6	151.5	119	4.4	84.0	1.77
89F00137	M	7	1	13.9	4.5	141.9	106	4.2	231.8	1.55
89F00164	M	7	1	12.9	3.3	153.1	117	3.4	394.5	1.85
89F00171	M	7	1	12.9	3.1	151.2	116	3.2	418.4	1.68
89F00264	M	7	1	13.7	5.5	148.3	113	4.7	1155.4	1.39
Mean				13.10	4.20	149.20	114.2	3.98	456.82	1.648
Std Dev				0.72	0.99	4.43	5.1	0.65	413.22	0.182
SEM				0.32	0.44	1.98	2.3	0.29	184.80	0.082
89F00125	M	8	1	13.0	4.8	151.3	120	5.0	133.5	1.78
89F00145	M	8	1	13.2	3.0	150.3	114	4.6	109.4	1.61
89F00158	M	8	1	13.5	4.1	151.4	113	4.3	500.1	1.45
89F00165	M	8	1	13.0	4.4	153.2	116	3.8	105.9	1.81
89F00266	M	8	1	13.7	5.3	146.9	113	4.8	67.0	1.62
Mean				13.28	4.32	150.62	115.2	4.50	183.18	1.654
Std Dev				0.31	0.86	2.33	2.9	0.47	178.76	0.146
SEM				0.14	0.39	1.04	1.3	0.21	79.94	0.065
89F00121	M	9	1	13.6	3.7	151.2	116	3.6	67.1	1.90
89F00139	M	9	1	14.3	4.6	151.4	115	4.4	192.9	1.75
89F00151	M	9	1	12.4	3.8	152.1	116	3.0	737.6	1.58
89F00156	M	9	1	13.3	3.6	150.7	113	3.7	643.4	1.52
89F00267	M	9	1	13.4	4.0	151.0	116	4.6	744.7	1.46
Mean				13.40	3.94	151.28	115.2	3.86	477.14	1.642
Std Dev				0.68	0.40	0.53	1.3	0.65	322.49	0.180
SEM				0.30	0.18	0.24	0.6	0.29	144.22	0.081

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00124	M	10	2	43.4	16.7	58.6	210.1	2.0	1881.6	0.0	27.8
89F00136	M	10	2	104.3	63.8	19.7	110.4	4.6	1605.9	0.0	50.8
89F00142	M	10	2	36.3	11.3	66.7	55.5	5.8	755.6	0.0	25.1
89F00168	M	10	2	55.1	16.4	71.1	69.7	4.7	1381.4	0.0	36.7
89F00175	M	10	2	38.3	9.8	58.5	118.3	7.7	1138.0	0.0	87.0
Mean				55.48	23.60	54.92	112.80	4.96	1352.5	0.00	45.48
Std Dev				28.25	22.68	20.42	60.51	2.07	432.2	0.00	25.28
SEM				12.63	10.14	9.13	27.06	0.93	193.3	0.00	11.31

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00126	M	1	2	45.4	57.6	53.6	221.1	4.2	2983.2	0.0	22.1
89F00130	M	1	2	27.2	21.6	77.3	56.1	5.3	419.6	0.0	15.7
89F00140	M	1	2	33.8	24.3	60.9	76.5	4.3	440.7	0.0	29.4
89F00155	M	1	2	30.5	29.5	54.9	201.4	7.2	1848.5	0.0	36.8
89F00166	M	1	2	40.5	24.4	46.9	58.0	6.4	739.8	0.0	30.2
Mean				35.48	31.48	58.72	122.62	5.48	1286.4	0.00	26.84
Std Dev				7.41	14.88	11.52	81.60	1.31	1113.6	0.00	8.12
SEM				3.32	6.65	5.15	36.49	0.59	498.0	0.00	3.63
89F00118	M	2	2	27.8	21.2	99.5	84.5	7.1	613.8	0.0	30.6
89F00132	M	2	2	33.9	37.5	77.9	67.7	2.4	902.7	0.0	32.6
89F00141	M	2	2	134.9	124.6	67.9	221.0	4.6	1682.8	0.0	24.2
89F00176	M	2	2	54.0	34.7	128.3	41.8	7.9	1057.4	0.0	27.2
89F00257	M	2	2	34.5	28.2	72.9	148.6	4.0	1937.6	0.0	43.8
Mean				57.02	49.24	89.30	112.72	5.20	1238.9	0.00	31.68
Std Dev				44.64	42.59	24.91	72.22	2.27	552.7	0.00	7.50
SEM				19.96	19.05	11.14	32.30	1.01	247.2	0.00	3.35
89F00129	M	3	2	54.0	55.9	45.4	166.6	1.7	1314.1	0.0	26.5
89F00147	M	3	2	40.6	38.2	70.4	29.4	10.3	556.1	0.0	30.6
89F00154	M	3	2	23.3	26.7	46.8	63.5	3.7	469.0	0.0	30.8
89F00172	M	3	2	52.5	42.8	41.7	46.0	9.2	772.2	0.0	26.5
89F00173	M	3	2	40.3	60.7	39.9	193.7	7.6	10816.5	0.0	46.8
Mean				42.14	44.86	48.84	99.84	6.50	2785.6	0.00	32.24
Std Dev				12.34	13.70	12.37	74.91	3.67	4501.4	0.00	8.41
SEM				5.52	6.13	5.53	33.50	1.64	2013.1	0.00	3.76

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00127	M	4	2	33.5	19.6	63.1	134.7	3.4	1540.4	0.0	42.3
89F00131	M	4	2	84.8	15.9	41.1	107.4	4.7	3901.2	0.0	33.6
89F00157	M	4	2	74.1	25.8	45.1	195.0	6.8	2691.6	0.0	44.7
89F00169	M	4	2	50.0	11.6	34.5	108.1	7.2	1085.5	0.0	40.8
89F00258	M	4	2	47.3	21.3	41.0	133.1	3.6	1441.3	0.0	46.2
Mean				57.94	18.84	44.96	135.66	5.14	2132.0	0.00	41.52
Std Dev				20.95	5.39	10.83	35.66	1.77	1158.2	0.00	4.90
SEM				9.37	2.41	4.84	15.95	0.79	517.9	0.00	2.19
89F00116	M	5	2	40.8	16.1	74.7	102.4	2.6	1057.8	0.0	21.2
89F00128	M	5	2	29.6	15.2	42.3	101.2	4.7	1007.3	0.0	35.9
89F00148	M	5	2	27.9	15.5	26.1	197.3	5.0	1793.9	0.0	27.2
89F00259	M	5	2	48.4	45.1	27.3	109.0	3.7	1006.2	0.0	64.8
89F00261	M	5	2	26.8	12.4	109.0	167.3	4.5	1149.8	0.0	50.9
Mean				34.70	20.86	55.88	135.44	4.10	1203.0	0.00	40.00
Std Dev				9.48	13.63	35.58	44.17	0.97	335.5	0.00	17.80
SEM				4.24	6.09	15.91	19.75	0.43	150.0	0.00	7.96
89F00120	M	6	2	46.5	20.2	54.1	305.8	6.5	2377.5	0.0	33.5
89F00143	M	6	2	46.2	17.3	27.1	246.4	3.7	1601.7	0.0	40.0
89F00149	M	6	2	45.4	36.6	52.0	268.6	6.8	3839.8	0.0	39.6
89F00177	M	6	2	30.0	15.0	33.0	149.4	7.7	1225.0	0.0	31.9
89F00263	M	6	2	28.9	8.3	197.1	45.4	7.0	526.1	0.0	33.9
Mean				39.40	19.48	72.66	203.12	6.34	1914.0	0.00	35.78
Std Dev				9.10	10.53	70.54	105.43	1.54	1267.1	0.00	3.75
SEM				4.07	4.71	31.55	47.15	0.69	566.7	0.00	1.68

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00115	M	7	2	52.5	46.2	79.5	120.9	5.4	1511.7	0.0	25.2
89F00137	M	7	2	25.6	34.4	126.5	75.4	4.3	692.7	0.0	22.9
89F00164	M	7	2	39.7	59.3	84.6	294.7	6.8	1092.1	0.0	27.4
89F00171	M	7	2	23.1	23.7	95.7	55.6	6.8	286.4	0.0	32.7
89F00264	M	7	2	29.2	16.5	123.6	167.2	5.9	1557.0	0.0	30.0
Mean				34.02	36.02	101.98	142.76	5.84	1028.0	0.00	27.64
Std Dev				12.12	17.18	21.88	95.26	1.05	543.2	0.00	3.86
SEM				5.42	7.68	9.79	42.60	0.47	242.9	0.00	1.73
89F00125	M	8	2	45.7	43.6	74.3	48.0	4.1	1194.4	0.0	20.2
89F00145	M	8	2	46.4	41.2	52.5	50.4	7.6	1345.2	0.0	23.3
89F00158	M	8	2	48.9	40.8	59.5	76.7	6.6	1891.3	0.0	31.6
89F00165	M	8	2	36.7	34.2	68.1	112.7	8.4	891.5	0.0	35.7
89F00266	M	8	2	37.5	30.5	108.0	241.6	5.5	2241.8	0.0	34.7
Mean				43.04	38.06	72.48	105.88	6.44	1512.9	0.00	29.10
Std Dev				5.56	5.48	21.52	80.23	1.70	545.6	0.00	6.96
SEM				2.49	2.45	9.62	35.88	0.76	244.0	0.00	3.11
89F00121	M	9	2	102.0	131.0	82.0	304.3	7.0	11327.8	0.0	31.4
89F00139	M	9	2	35.9	45.6	85.0	93.6	3.6	573.8	0.0	15.1
89F00151	M	9	2	34.7	50.7	47.5	61.2	5.6	308.0	0.0	38.2
89F00156	M	9	2	18.8	21.4	95.4	50.5	4.2	426.4	0.0	17.0
89F00267	M	9	2	27.6	32.9	88.1	152.0	6.1	1662.6	0.0	34.6
Mean				43.80	56.32	79.60	132.32	5.30	2859.7	0.00	27.26
Std Dev				33.24	43.28	18.52	103.94	1.39	4764.4	0.00	10.53
SEM				14.87	19.35	8.33	46.48	0.62	2130.7	0.00	4.71

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00124	M	10	2	81	0.0	6.0	4.5	3.0	154.2	12.4	1.1
89F00136	M	10	2	126	0.0	4.1	3.4	5.0	96.4	15.8	1.5
89F00142	M	10	2	35	0.1	5.4	4.1	3.3	128.1	16.4	0.7
89F00168	M	10	2	54	0.0	5.7	4.1	2.5	89.1	16.4	1.1
89F00175	M	10	2	56	0.0	5.7	4.3	3.3	152.0	13.4	0.8
Mean				70.4	0.02	5.38	4.08	3.42	123.96	14.88	1.04
Std Dev				35.1	0.04	0.75	0.41	0.94	30.38	1.86	0.31
SEM				15.7	0.02	0.33	0.19	0.42	13.59	0.83	0.14



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00126	M	1	2	33	0.0	4.6	3.3	2.5	112.4	10.8	0.9
89F00130	M	1	2	120	0.0	5.7	3.9	2.2	113.4	15.7	1.4
89F00140	M	1	2	44	0.0	5.4	4.1	3.2	125.8	15.5	0.8
89F00155	M	1	2	62	0.0	5.0	3.6	2.5	112.8	10.1	0.8
89F00166	M	1	2	92	0.0	5.9	3.9	2.0	120.6	9.7	1.1
Mean				70.2	0.00	5.32	3.76	2.48	117.00	12.36	1.00
Std Dev				35.7	0.00	0.53	0.31	0.45	5.96	2.98	0.25
SEM				16.0	0.00	0.24	0.14	0.20	2.67	1.33	0.11
89F00118	M	2	2	84	0.0	5.7	3.8	2.0	107.1	14.4	0.9
89F00132	M	2	2	31	0.1	5.4	3.4	1.6	121.2	9.2	1.0
89F00141	M	2	2	57	0.0	6.2	4.3	2.2	107.6	11.8	1.6
89F00176	M	2	2	59	0.0	6.2	3.5	1.3	120.0	13.6	0.8
89F00257	M	2	2	76	0.5	5.5	3.5	1.8	93.6	14.0	0.9
Mean				61.4	0.12	5.80	3.70	1.78	109.90	12.60	1.04
Std Dev				20.5	0.22	0.38	0.37	0.35	11.28	2.14	0.32
SEM				9.1	0.10	0.17	0.16	0.16	5.04	0.96	0.14
89F00129	M	3	2	39	0.0	6.0	3.2	1.2	122.0	11.2	1.0
89F00147	M	3	2	49	0.0	6.6	3.3	1.0	124.2	17.9	1.0
89F00154	M	3	2	41	0.0	6.3	3.7	1.4	102.5	7.3	0.7
89F00172	M	3	2	42	0.0	6.2	3.4	1.2	134.0	13.2	0.9
89F00173	M	3	2	81	0.0	5.3	3.4	1.8	140.0	11.2	0.8
Mean				50.4	0.00	6.08	3.40	1.32	124.54	12.16	0.88
Std Dev				17.5	0.00	0.49	0.19	0.30	14.33	3.86	0.13
SEM				7.8	0.00	0.22	0.08	0.14	6.41	1.72	0.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00127	M	4	2	36	0.0	5.5	4.1	2.9	107.6	14.4	1.0
89F00131	M	4	2	57	0.0	5.5	4.5	4.4	129.0	9.4	1.3
89F00157	M	4	2	108	0.1	5.9	4.3	2.8	127.3	13.9	1.2
89F00169	M	4	2	41	0.1	5.4	3.9	2.8	130.6	15.6	1.7
89F00258	M	4	2	93	0.5	5.8	3.9	2.0	107.1	13.7	1.5
Mean				67.0	0.14	5.62	4.14	2.98	120.32	13.40	1.34
Std Dev				32.0	0.21	0.22	0.26	0.87	11.90	2.35	0.27
SEM				14.3	0.09	0.10	0.12	0.39	5.32	1.05	0.12
89F00116	M	5	2	138	0.0	5.6	4.2	3.1	115.1	16.9	0.9
89F00128	M	5	2	69	0.0	5.2	3.9	2.9	126.1	12.5	1.1
89F00148	M	5	2	110	0.0	5.4	3.9	2.5	120.7	8.5	0.9
89F00259	M	5	2	52	0.6	6.2	3.6	1.3	95.0	10.3	1.8
89F00261	M	5	2	199	0.0	5.6	3.8	2.2	92.1	15.4	0.9
Mean				113.6	0.12	5.60	3.88	2.40	109.80	12.72	1.12
Std Dev				58.5	0.27	0.37	0.22	0.71	15.37	3.48	0.39
SEM				26.2	0.12	0.17	0.10	0.32	6.87	1.56	0.17
89F00120	M	6	2	75	0.0	5.7	4.3	3.2	126.0	14.2	1.0
89F00143	M	6	2	58	0.1	5.8	4.1	2.5	144.0	14.0	1.0
89F00149	M	6	2	77	0.0	5.4	3.8	2.4	96.8	13.1	1.0
89F00177	M	6	2	87	0.0	6.1	4.8	3.7	112.1	8.0	1.2
89F00263	M	6	2	103	0.5	6.1	3.9	1.8	93.9	15.6	0.6
Mean				80.0	0.12	5.82	4.18	2.72	114.56	12.98	0.96
Std Dev				16.6	0.22	0.29	0.40	0.74	20.89	2.92	0.22
SEM				7.4	0.10	0.13	0.18	0.33	9.34	1.31	0.10

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00115	M	7	2	60	0.0	5.9	3.9	2.0	102.8	17.3	1.8
89F00137	M	7	2	25	0.1	5.7	4.1	2.5	131.0	15.2	0.8
89F00164	M	7	2	35	0.0	5.5	4.0	2.5	121.3	13.7	1.0
89F00171	M	7	2	109	0.0	5.9	3.7	1.7	139.3	9.7	0.8
89F00264	M	7	2	70	0.0	5.3	3.7	2.2	107.9	14.4	0.9
Mean				59.8	0.02	5.66	3.88	2.18	120.46	14.06	1.06
Std Dev				33.0	0.04	0.26	0.18	0.34	15.30	2.79	0.42
SEM				14.7	0.02	0.12	0.08	0.15	6.84	1.25	0.19
89F00125	M	8	2	45	0.0	5.7	3.6	1.6	91.5	10.0	1.2
89F00145	M	8	2	40	0.1	5.4	3.2	1.5	117.7	11.4	0.9
89F00158	M	8	2	63	0.0	6.4	3.8	1.5	108.6	16.8	1.0
89F00165	M	8	2	51	0.0	6.1	3.6	1.4	157.9	10.4	1.0
89F00266	M	8	2	99	0.5	5.8	3.8	1.9	117.2	12.0	1.3
Mean				59.6	0.12	5.88	3.60	1.58	118.58	12.12	1.08
Std Dev				23.6	0.22	0.38	0.24	0.19	24.40	2.73	0.16
SEM				10.6	0.10	0.17	0.11	0.09	10.91	1.22	0.07
89F00121	M	9	2	51	0.0	5.6	4.1	2.6	115.8	12.1	1.1
89F00139	M	9	2	64	0.1	6.5	3.4	1.1	126.4	11.7	0.8
89F00151	M	9	2	60	0.0	6.9	3.3	0.9	94.8	14.0	1.6
89F00156	M	9	2	35	0.1	6.8	3.6	1.1	112.9	12.3	1.0
89F00267	M	9	2	133	0.5	6.4	3.7	1.4	113.4	10.9	1.2
Mean				68.6	0.14	6.44	3.62	1.42	112.66	12.20	1.14
Std Dev				37.7	0.21	0.51	0.31	0.68	11.38	1.14	0.30
SEM				16.9	0.09	0.23	0.14	0.31	5.09	0.51	0.13

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00124	M	10	2	14.6	4.5	152.7	115	4.3	183.3	1.68
89F00136	M	10	2	2.6	3.6	153.5	102	3.0	14.7	1.50
89F00142	M	10	2	13.9	4.6	149.9	115	4.5	77.9	1.60
89F00168	M	10	2	12.4	4.9	153.5	108	3.7	553.4	2.08
89F00175	M	10	2	13.1	3.5	155.3	114	4.0	164.5	1.59
Mean				11.32	4.22	152.98	110.8	3.90	198.76	1.690
Std Dev				4.94	0.63	1.97	5.7	0.59	209.56	0.227
SEM				2.21	0.28	0.88	2.6	0.26	93.72	0.102

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00126	M	1	2	11.7	3.8	139.3	111	3.6	120.1	1.25
89F00130	M	1	2	13.5	3.6	149.5	113	3.9	236.9	1.89
89F00140	M	1	2	13.2	4.1	148.7	117	3.9	171.2	1.56
89F00155	M	1	2	11.9	3.7	154.1	114	4.1	89.9	1.87
89F00166	M	1	2	12.5	4.1	149.5	111	3.8	266.4	1.31
Mean				12.56	3.86	148.22	113.2	3.86	176.90	1.576
Std Dev				0.79	0.23	5.42	2.5	0.18	74.90	0.301
SEM				0.35	0.10	2.43	1.1	0.08	33.49	0.135
89F00118	M	2	2	13.3	5.4	146.7	116	3.7	221.4	1.63
89F00132	M	2	2	12.6	4.6	148.3	108	4.1	92.8	1.64
89F00141	M	2	2	12.1	4.8	147.6	113	4.6	263.5	1.71
89F00176	M	2	2	12.2	3.8	148.0	112	4.0	321.0	1.47
89F00257	M	2	2	13.8	3.9	149.6	113	3.9	239.9	1.67
Mean				12.80	4.50	148.04	112.4	4.06	227.72	1.624
Std Dev				0.73	0.66	1.06	2.9	0.34	84.22	0.092
SEM				0.33	0.30	0.47	1.3	0.15	37.67	0.041
89F00129	M	3	2	12.1	3.5	145.6	112	3.8	152.8	1.64
89F00147	M	3	2	11.9	4.6	150.0	115	3.6	303.6	1.88
89F00154	M	3	2	11.7	3.1	153.3	116	3.6	516.1	1.85
89F00172	M	3	2	12.1	3.5	148.0	117	4.2	287.0	1.63
89F00173	M	3	2	11.9	4.0	154.8	118	4.2	84.2	1.36
Mean				11.94	3.74	150.34	115.6	3.88	268.74	1.672
Std Dev				0.17	0.58	3.77	2.3	0.30	166.01	0.209
SEM				0.07	0.26	1.68	1.0	0.14	74.24	0.094

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00127	M	4	2	13.8	3.9	149.7	112	3.9	75.2	1.58
89F00131	M	4	2	13.4	3.8	150.4	111	3.9	135.6	1.33
89F00157	M	4	2	12.7	4.3	158.4	111	4.2	206.5	1.94
89F00169	M	4	2	12.3	3.1	158.9	116	3.9	415.3	1.51
89F00258	M	4	2	12.8	4.4	151.7	117	3.3	831.2	2.15
Mean				13.00	3.90	153.82	113.4	3.84	332.76	1.702
Std Dev				0.60	0.51	4.47	2.9	0.33	306.76	0.334
SEM				0.27	0.23	2.00	1.3	0.15	137.19	0.150
89F00116	M	5	2	13.8	4.6	148.5	113	4.0	557.3	1.75
89F00128	M	5	2	13.1	2.9	151.5	118	3.2	116.0	1.77
89F00148	M	5	2	12.4	3.8	154.5	119	3.9	136.0	1.91
89F00259	M	5	2	12.5	4.4	149.9	113	3.3	915.4	1.64
89F00261	M	5	2	13.7	4.4	149.9	113	3.9	147.8	1.95
Mean				13.10	4.02	150.86	115.2	3.66	374.50	1.804
Std Dev				0.65	0.69	2.30	3.0	0.38	353.94	0.126
SEM				0.29	0.31	1.03	1.4	0.17	158.29	0.056
89F00120	M	6	2	14.7	4.7	158.5	115	3.3	142.3	1.71
89F00143	M	6	2	13.4	3.1	147.4	116	4.5	108.8	1.52
89F00149	M	6	2	11.7	4.6	156.8	119	3.4	149.4	1.84
89F00177	M	6	2	12.3	4.0	154.9	117	3.7	73.0	1.99
89F00263	M	6	2	14.5	5.1	150.7	115	3.5	764.8	0.06
Mean				13.32	4.30	153.66	116.4	3.68	247.66	1.424
Std Dev				1.32	0.78	4.55	1.7	0.48	290.68	0.782
SEM				0.59	0.35	2.03	0.7	0.22	130.00	0.350

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	HA	CL	K	IRON	MAG
89F00115	M	7	2	13.2	4.0	149.7	114	4.4	52.5	1.75
89F00137	M	7	2	13.7	3.8	150.7	114	3.9	135.8	1.60
89F00164	M	7	2	12.5	3.8	153.1	116	4.9	152.9	1.68
89F00171	M	7	2	12.2	3.3	149.0	109	3.5	295.4	1.07
89F00264	M	7	2	13.8	5.1	148.7	112	4.1	83.7	1.47
Mean				13.08	4.00	150.24	113.0	4.16	144.06	1.514
Std Dev				0.71	0.67	1.77	2.6	0.53	93.64	0.269
SEM				0.32	0.30	0.79	1.2	0.24	41.88	0.120
89F00125	M	8	2	12.5	3.6	147.4	114	3.3	505.0	1.48
89F00145	M	8	2	13.0	3.0	150.2	113	4.6	593.6	1.44
89F00158	M	8	2	12.7	4.2	150.4	113	3.8	330.0	1.66
89F00165	M	8	2	12.2	3.8	151.0	114	4.1	118.2	1.69
89F00266	M	8	2	13.1	5.0	147.6	111	3.8	56.9	1.63
Mean				12.70	3.92	149.32	113.0	3.92	320.74	1.580
Std Dev				0.37	0.74	1.63	1.2	0.48	234.05	0.112
SEM				0.16	0.33	0.76	0.5	0.21	104.67	0.050
89F00121	M	9	2	12.4	4.8	149.8	115	3.6	55.9	2.06
89F00139	M	9	2	13.8	4.2	153.1	116	4.6	161.8	1.47
89F00151	M	9	2	11.4	5.2	151.7	115	3.0	392.1	1.57
89F00156	M	9	2	11.7	4.2	150.5	114	3.5	232.3	1.72
89F00267	M	9	2	13.5	4.1	149.4	114	3.7	274.2	1.64
Mean				12.56	4.50	150.90	114.8	3.68	223.26	1.760
Std Dev				1.06	0.48	1.51	0.8	0.58	125.47	0.250
SEM				0.48	0.21	0.67	0.4	0.26	56.11	0.112

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00124	M	10	3	133.9	155.9	47.5	442.7	2.8	37921.1	0.0	34.2
89F00136	M	10	3	20.0	22.4	39.8	48.2	4.6	268.4	0.0	30.4
89F00142	M	10	3	35.5	11.5	70.2	60.8	7.9	668.1	0.0	23.6
89F00168	M	10	3	46.4	11.8	59.8	62.5	4.5	1125.9	0.0	44.3
89F00175	M	10	3	38.1	10.2	67.1	85.1	8.8	903.6	0.0	83.4
Mean				54.78	42.36	56.88	139.86	5.72	8177.4	0.00	43.18
Std Dev				45.25	63.66	12.94	169.81	2.53	16630.3	0.00	23.70
SEM				20.24	28.47	5.79	75.94	1.13	7437.3	0.00	10.60



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AS <sub>T</sub>	ALK	LDH	GGT	CK	BILI	CHOL
89F00126	M	1	3	44.6	55.0	51.0	173.7	3.3	1690.9	0.0	26.4
89F00130	M	1	3	26.8	22.4	71.3	51.4	5.5	358.9	0.0	16.2
89F00140	M	1	3	32.1	26.0	53.7	55.8	6.2	484.7	0.0	24.2
89F00155	M	1	3	39.1	14.7	32.2	109.4	5.6	972.4	0.0	37.3
89F00166	M	1	3	40.8	27.0	49.6	38.3	6.2	551.4	0.0	35.1
Mean				36.68	29.02	51.56	85.72	5.36	819.7	0.00	27.84
Std Dev				7.14	15.31	13.90	56.18	1.20	538.3	0.00	8.56
SEM				3.19	6.84	6.22	25.12	0.54	240.7	0.00	3.83
89F00118	M	2	3	26.9	24.8	90.9	55.9	4.9	417.7	0.0	32.6
89F00132	M	2	3	32.7	32.6	64.1	56.9	5.0	720.5	0.0	31.4
89F00141	M	2	3	97.7	74.6	67.2	132.6	5.8	1228.5	0.0	23.9
89F00176	M	2	3	48.0	35.3	136.1	26.8	8.6	744.8	0.0	26.6
89F00257	M	2	3	30.3	29.7	69.1	180.3	5.6	3207.8	0.0	50.9
Mean				47.12	39.40	85.48	90.50	5.98	1263.9	0.00	33.08
Std Dev				29.41	20.06	30.21	63.68	1.51	1124.8	0.00	10.57
SEM				13.15	8.97	13.51	28.48	0.68	503.0	0.00	4.73
89F00129	M	3	3	48.4	55.2	54.2	64.1	7.5	553.6	0.0	25.2
89F00147	M	3	3	37.6	36.2	66.9	50.4	10.2	357.5	0.0	29.2
89F00154	M	3	3	48.3	122.5	52.0	158.7	9.1	16288.9	0.0	35.0
89F00172	M	3	3	61.5	59.0	42.5	30.4	9.0	1021.0	0.0	27.1
89F00173	M	3	3	32.0	35.1	45.9	38.6	9.3	1421.3	0.0	34.6
Mean				45.56	61.60	52.30	68.44	9.02	3928.5	0.00	30.22
Std Dev				11.37	35.72	9.41	52.03	0.97	6922.1	0.00	4.42
SEM				5.08	15.97	4.21	23.27	0.44	3095.6	0.00	1.97

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00127	M	4	3	31.5	13.9	58.2	56.4	5.8	698.7	0.0	46.2
89F00131	M	4	3	65.4	12.9	42.6	112.9	5.8	1431.1	0.0	36.1
89F00157	M	4	3	73.2	23.6	46.9	162.4	8.2	3712.9	0.0	45.2
89F00169	M	4	3	57.5	13.9	39.0	71.8	7.9	1190.5	0.0	42.4
89F00258	M	4	3	44.0	14.3	38.1	70.5	5.2	852.0	0.0	51.2
Mean				54.32	15.72	44.96	94.80	6.58	1577.0	0.00	44.22
Std Dev				16.71	4.44	8.17	43.28	1.37	1227.8	0.00	5.54
SEM				7.47	1.98	3.66	19.35	0.61	549.1	0.00	2.48
89F00116	M	5	3	44.1	17.7	85.7	71.5	2.3	1238.6	0.0	32.3
89F00128	M	5	3	29.0	15.8	45.6	52.9	9.1	670.8	0.0	32.3
89F00148	M	5	3	39.1	17.4	44.8	121.2	8.6	1546.1	0.0	37.9
89F00259	M	5	3	43.1	34.0	23.3	162.8	4.1	1999.5	0.0	75.5
89F00261	M	5	3	24.0	9.2	102.4	40.2	6.0	650.6	0.0	49.2
Mean				35.86	18.82	60.36	89.72	6.02	1221.1	0.00	45.44
Std Dev				8.92	9.16	32.57	51.17	2.90	578.8	0.00	18.17
SEM				3.99	4.09	14.57	22.88	1.30	258.9	0.00	8.12
89F00120	M	6	3	48.3	11.4	38.5	58.3	5.1	2069.3	0.0	32.4
89F00143	M	6	3	46.2	17.9	38.7	228.0	6.4	1358.0	0.0	34.5
89F00149	M	6	3	33.2	69.1	49.2	385.4	5.2	1308.7	0.0	32.9
89F00177	M	6	3	35.9	21.9	37.3	331.8	8.1	973.9	0.0	44.7
89F00263	M	6	3	42.3	33.3	173.5	137.1	8.5	5898.1	0.0	37.8
Mean				41.18	30.72	67.44	228.12	6.66	2321.6	0.00	36.46
Std Dev				6.49	22.89	59.48	134.73	1.59	2038.7	0.00	5.07
SEM				2.90	10.23	26.60	60.25	0.71	911.8	0.00	2.27

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00115	M	7	3	46.9	47.7	76.9	170.6	4.0	1329.7	0.0	22.7
89F00137	M	7	3	23.6	29.0	110.1	97.9	5.8	836.4	0.0	21.0
89F00164	M	7	3	37.2	47.3	75.9	61.9	6.6	644.8	0.0	23.9
89F00171	M	7	3	19.6	25.8	96.9	54.5	7.1	237.4	0.0	34.1
89F00264	M	7	3	25.5	13.0	131.3	70.3	6.9	606.4	0.0	33.2
Mean				30.56	32.56	98.22	91.04	6.08	730.9	0.00	26.98
Std Dev				11.24	14.90	23.40	47.41	1.26	398.8	0.00	6.18
SEM				5.03	6.66	10.46	21.20	0.57	178.3	0.00	2.77
89F00125	M	8	3	43.1	44.6	73.8	70.9	6.1	754.9	0.0	19.5
89F00145	M	8	3	32.0	31.8	60.3	35.4	8.1	577.0	0.0	22.3
89F00158	M	8	3	46.4	40.9	55.1	69.7	6.5	1017.5	0.0	28.6
89F00165	M	8	3	33.2	36.2	68.5	142.8	8.5	1025.8	0.0	32.0
89F00266	M	8	3	46.9	49.8	95.2	58.6	6.9	566.8	0.0	55.1
Mean				40.32	40.66	70.58	75.48	7.22	788.4	0.00	31.50
Std Dev				7.21	7.03	15.54	40.24	1.04	225.7	0.00	14.09
SEM				3.22	3.14	6.95	18.00	0.46	100.9	0.00	6.30
89F00121	M	9	3	100.4	119.6	66.7	239.6	4.2	1044.4	0.0	26.9
89F00139	M	9	3	30.4	38.5	83.4	40.8	5.6	340.1	0.0	15.6
89F00151	M	9	3	91.8	38.9	31.4	228.3	6.7	1966.8	0.0	67.4
89F00156	M	9	3	18.7	26.8	98.6	168.5	4.4	582.1	0.0	15.6
89F00267	M	9	3	22.3	41.9	89.9	92.7	7.7	1134.0	0.0	29.1
Mean				52.72	53.14	74.00	153.98	5.72	1013.5	0.00	30.92
Std Dev				39.94	37.60	26.53	86.07	1.50	625.3	0.00	21.33
SEM				17.86	16.81	11.86	38.49	0.67	279.6	0.00	9.54

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00124	M	10	3	62	0.1	5.6	4.2	3.2	142.8	10.8	1.1
89F00136	M	10	3	42	0.0	6.3	3.3	1.1	117.8	8.3	0.9
89F00142	M	10	3	25	0.1	5.4	4.2	3.7	115.8	19.9	1.0
89F00168	M	10	3	101	0.0	5.4	3.9	2.5	121.6	13.6	1.0
89F00175	M	10	3	168	0.0	5.6	4.2	2.9	132.4	12.7	1.2
Mean				79.6	0.04	5.66	3.96	2.68	126.08	13.06	1.04
Std Dev				57.0	0.05	0.37	0.39	0.99	11.33	4.33	0.11
SEM				25.5	0.02	0.17	0.17	0.44	5.07	1.94	0.05

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00126	M	1	3	54	0.1	5.1	3.1	1.6	141.5	9.8	1.0
89F00130	M	1	3	82	0.0	5.8	3.9	2.0	117.5	13.4	1.5
89F00140	M	1	3	30	0.0	5.1	3.7	2.6	125.4	13.4	0.9
89F00155	M	1	3	43	0.0	5.4	4.0	2.9	134.4	12.0	1.4
89F00166	M	1	3	73	0.0	5.9	4.0	2.0	125.1	11.6	0.9
Mean				56.4	0.02	5.46	3.74	2.22	128.78	12.04	1.14
Std Dev				21.3	0.04	0.38	0.38	0.52	9.29	1.49	0.29
SEM				9.5	0.02	0.17	0.17	0.23	4.16	0.67	0.13
89F00118	M	2	3	61	0.0	5.9	3.4	1.3	107.2	14.2	0.9
89F00132	M	2	3	29	0.0	5.5	3.3	1.5	115.9	11.4	1.1
89F00141	M	2	3	49	0.0	6.3	4.0	1.7	127.8	12.0	1.3
89F00176	M	2	3	51	0.0	6.1	3.5	1.3	129.1	13.3	1.0
89F00257	M	2	3	71	0.6	6.2	3.4	1.2	120.4	15.1	1.2
Mean				52.2	0.12	6.00	3.52	1.40	120.08	13.20	1.10
Std Dev				15.7	0.27	0.32	0.28	0.20	9.01	1.52	0.16
SEM				7.0	0.12	0.14	0.12	0.09	4.03	0.68	0.07
89F00129	M	3	3	31	0.1	6.1	3.5	1.3	132.1	11.3	1.0
89F00147	M	3	3	70	0.0	7.4	3.5	0.9	141.2	21.2	1.1
89F00154	M	3	3	46	0.0	6.0	3.5	1.4	115.9	13.2	1.1
89F00172	M	3	3	57	0.0	6.3	3.1	1.0	123.5	13.8	1.0
89F00173	M	3	3	117	0.0	6.4	3.2	1.0	138.9	13.1	1.4
Mean				64.2	0.02	6.44	3.36	1.12	130.32	14.52	1.12
Std Dev				32.8	0.04	0.56	0.19	0.22	10.60	3.85	0.16
SEM				14.7	0.02	0.25	0.09	0.10	4.74	1.72	0.07

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00127	M	4	3	55	0.0	5.4	4.3	4.0	128.5	12.7	1.1
89F00131	M	4	3	52	0.0	5.0	4.0	3.7	131.3	13.1	1.1
89F00157	M	4	3	149	0.0	6.3	5.1	4.1	100.5	10.6	1.2
89F00169	M	4	3	87	0.1	5.8	4.2	2.7	163.2	16.3	1.6
89F00258	M	4	3	182	0.6	6.3	4.1	1.8	124.2	12.3	1.9
Mean				105.0	0.14	5.76	4.34	3.26	129.54	13.00	1.38
Std Dev				58.1	0.26	0.57	0.44	0.99	22.41	2.08	0.36
SEM				26.0	0.12	0.25	0.20	0.44	10.02	0.93	0.16
89F00116	M	5	3	68	0.0	6.1	4.9	4.2	138.0	15.6	0.6
89F00128	M	5	3	61	0.0	5.2	4.0	3.3	116.9	11.2	1.0
89F00148	M	5	3	63	0.1	5.8	4.3	2.9	115.8	11.6	1.4
89F00259	M	5	3	50	0.5	6.4	3.6	1.3	122.4	14.0	1.1
89F00261	M	5	3	192	0.0	5.7	3.8	1.9	124.6	13.9	1.1
Mean				86.8	0.12	5.84	4.12	2.72	123.54	13.26	1.04
Std Dev				59.2	0.22	0.45	0.51	1.15	8.88	1.83	0.29
SEM				26.5	0.10	0.20	0.23	0.51	3.97	0.82	0.13
89F00120	M	6	3	65	0.0	5.5	3.8	2.2	120.7	10.9	1.5
89F00143	M	6	3	61	0.1	5.8	4.2	2.6	145.1	17.3	1.0
89F00149	M	6	3	74	0.0	6.4	3.0	0.9	155.9	17.8	2.1
89F00177	M	6	3	71	0.0	5.2	4.2	4.1	147.5	14.7	1.2
89F00263	M	6	3	81	0.5	6.2	3.7	1.5	115.0	12.3	1.2
Mean				70.4	0.12	5.82	3.78	2.26	136.84	14.60	1.40
Std Dev				7.8	0.22	0.49	0.49	1.22	17.91	3.02	0.43
SEM				3.5	0.10	0.22	0.22	0.54	8.01	1.35	0.19

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00115	M	7	3	71	0.0	5.9	3.8	1.8	115.5	16.6	1.8
89F00137	M	7	3	81	0.0	5.9	4.2	2.6	128.1	16.5	0.9
89F00164	M	7	3	117	0.1	5.6	3.8	2.0	121.0	12.9	1.0
89F00171	M	7	3	113	0.0	5.9	3.7	1.7	130.9	10.9	0.8
89F00264	M	7	3	56	0.5	5.7	3.8	2.0	122.0	13.8	1.0
Mean				87.6	0.12	5.80	3.86	2.02	123.50	14.14	1.10
Std Dev				26.6	0.22	0.14	0.19	0.35	6.09	2.44	0.40
SEM				11.9	0.10	0.06	0.09	0.16	2.72	1.09	0.18
89F00125	M	8	3	49	0.0	5.9	3.3	1.3	112.7	11.8	0.9
89F00145	M	8	3	32	0.0	5.8	3.3	1.3	120.2	13.0	1.0
89F00158	M	8	3	63	0.0	6.8	4.0	1.4	101.3	15.5	1.1
89F00165	M	8	3	48	0.0	5.9	3.7	1.7	159.8	10.7	1.1
89F00266	M	8	3	100	0.6	7.2	3.9	1.2	120.5	15.7	1.3
Mean				58.4	0.12	6.32	3.64	1.38	122.90	13.34	1.08
Std Dev				25.7	0.27	0.64	0.33	0.19	22.05	2.22	0.15
SEM				11.5	0.12	0.29	0.15	0.09	9.86	0.99	0.07
89F00121	M	9	3	75	0.1	6.4	3.5	1.2	124.9	9.8	1.2
89F00139	M	9	3	65	0.1	6.6	3.3	1.0	111.7	14.8	0.9
89F00151	M	9	3	139	0.0	5.7	4.0	2.3	135.6	14.8	2.2
89F00156	M	9	3	61	0.0	6.6	2.7	0.7	124.1	12.1	0.8
89F00267	M	9	3	45	0.5	7.1	3.7	1.1	106.1	11.1	1.1
Mean				77.0	0.14	6.48	3.44	1.26	120.48	12.52	1.24
Std Dev				36.3	0.21	0.51	0.49	0.61	11.67	2.24	0.56
SEM				16.2	0.09	0.23	0.22	0.27	5.22	1.00	0.25

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00124	M	10	3	11.3	4.7	148.3	113	4.4	96.9	1.74
89F00136	M	10	3	11.3	3.1	152.7	114	3.6	507.8	1.19
89F00142	M	10	3	14.4	4.5	146.6	111	4.3	59.1	1.59
89F00168	M	10	3	13.0	4.1	150.9	112	3.9	580.1	1.87
89F00175	M	10	3	13.8	4.5	156.7	119	5.9	179.9	1.69
Mean				12.76	4.18	151.04	113.8	4.42	284.76	1.616
Std Dev				1.42	0.64	3.94	3.1	0.89	241.96	0.259
SEM				0.64	0.29	1.76	1.4	0.40	108.21	0.116



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00126	M	1	3	12.4	3.7	150.2	116	3.8	82.8	1.39
89F00130	M	1	3	13.2	3.9	151.0	112	4.1	528.4	1.82
89F00140	M	1	3	12.4	3.9	148.9	114	3.8	118.5	1.48
89F00155	M	1	3	11.5	3.6	149.3	115	4.3	107.2	1.71
89F00166	M	1	3	13.0	3.9	154.6	114	4.6	472.3	1.63
Mean				12.50	3.80	150.80	114.2	4.12	261.84	1.606
Std Dev				0.66	0.14	2.27	1.5	0.34	219.01	0.173
SEM				0.30	0.06	1.02	0.7	0.15	97.94	0.077
89F00118	M	2	3	12.6	5.0	146.6	110	4.0	181.1	1.52
89F00132	M	2	3	13.8	4.4	146.7	112	3.6	231.9	1.87
89F00141	M	2	3	12.2	4.2	146.1	117	4.1	269.8	1.48
89F00176	M	2	3	12.2	4.2	152.0	112	4.8	568.5	1.33
89F00257	M	2	3	13.3	4.4	147.7	117	4.0	500.3	1.71
Mean				12.82	4.44	147.82	113.6	4.10	350.32	1.582
Std Dev				0.71	0.33	2.41	3.2	0.44	172.65	0.210
SEM				0.32	0.15	1.08	1.4	0.19	77.21	0.094
89F00129	M	3	3	11.8	3.7	146.3	113	4.3	234.6	1.62
89F00147	M	3	3	13.1	4.9	162.2	120	4.3	541.3	1.99
89F00154	M	3	3	12.2	4.1	149.2	113	3.9	348.0	1.85
89F00172	M	3	3	12.3	4.0	152.1	118	4.5	550.8	1.43
89F00173	M	3	3	12.7	4.2	150.3	113	3.9	396.0	1.49
Mean				12.42	4.18	152.02	115.4	4.18	414.14	1.676
Std Dev				0.50	0.44	6.07	3.4	0.27	133.96	0.238
SEM				0.22	0.20	2.71	1.5	0.12	59.91	0.107

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00127	M	4	3	13.6	3.8	148.0	113	4.3	135.7	1.69
89F00131	M	4	3	13.7	4.5	161.4	107	3.5	105.9	1.58
89F00157	M	4	3	13.7	4.7	158.2	111	5.0	209.2	2.01
89F00169	M	4	3	13.6	4.7	155.8	112	4.7	248.4	2.00
89F00258	M	4	3	13.7	4.1	149.6	116	3.5	1096.5	1.79
Mean				13.66	4.36	154.60	111.8	4.20	359.14	1.814
Std Dev				0.05	0.40	5.68	3.3	0.69	416.08	0.190
SEM				0.02	0.18	2.54	1.5	0.31	186.09	0.085
89F00116	M	5	3	14.8	4.4	150.9	113	4.9	109.5	2.02
89F00128	M	5	3	13.1	3.8	150.1	112	3.6	235.3	1.83
89F00148	M	5	3	12.4	4.4	156.8	118	3.8	127.6	1.91
89F00259	M	5	3	13.5	4.0	150.0	114	4.4	928.4	1.40
89F00261	M	5	3	14.1	5.2	149.0	114	4.5	401.5	1.78
Mean				13.58	4.36	151.36	114.2	4.24	360.46	1.788
Std Dev				0.92	0.54	3.11	2.3	0.53	338.05	0.235
SEM				0.41	0.24	1.39	1.0	0.24	151.18	0.105
89F00120	M	6	3	12.8	4.3	146.1	114	3.4	489.0	1.46
89F00143	M	6	3	13.9	4.1	146.2	108	5.3	129.6	1.75
89F00149	M	6	3	9.9	5.3	150.1	113	3.4	162.7	1.71
89F00177	M	6	3	13.2	2.5	159.0	118	5.2	297.6	1.84
89F00263	M	6	3	13.7	5.2	150.0	113	3.7	864.8	1.84
Mean				12.70	4.28	150.28	113.2	4.20	388.74	1.720
Std Dev				1.62	1.13	5.25	3.6	0.97	301.35	0.156
SEM				0.73	0.50	2.35	1.6	0.43	134.77	0.070

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00115	M	7	3	12.6	4.5	148.7	114	4.2	74.0	1.48
89F00137	M	7	3	13.6	4.6	149.3	111	4.5	120.8	1.43
89F00164	M	7	3	12.1	3.7	151.0	118	4.8	119.2	1.85
89F00171	M	7	3	12.4	4.6	150.8	115	4.1	281.9	1.67
89F00264	M	7	3	14.2	5.2	147.3	112	4.3	814.5	1.51
Mean				12.98	4.52	149.42	114.0	4.38	282.08	1.588
Std Dev				0.88	0.54	1.54	2.7	0.28	307.94	0.172
SEM				0.40	0.24	0.69	1.2	0.12	137.72	0.077
89F00125	M	8	3	12.6	4.0	148.7	115	4.3	591.1	1.48
89F00145	M	8	3	12.6	3.7	150.7	119	5.1	248.6	1.56
89F00158	M	8	3	12.7	4.4	150.9	118	3.8	304.9	1.81
89F00165	M	8	3	12.3	4.2	151.2	120	4.7	199.2	1.61
89F00266	M	8	3	12.8	5.3	147.2	109	3.8	996.7	1.59
Mean				12.60	4.32	149.74	116.2	4.34	468.10	1.610
Std Dev				0.19	0.61	1.73	4.4	0.57	332.29	0.122
SEM				0.08	0.27	0.77	2.0	0.25	148.60	0.055
89F00121	M	9	3	12.5	4.7	153.0	115	4.4	88.7	1.81
89F00139	M	9	3	13.4	4.4	151.4	119	4.3	467.0	1.43
89F00151	M	9	3	10.8	4.0	153.8	112	3.4	72.4	1.50
89F00156	M	9	3	12.0	4.6	149.3	113	4.1	182.6	1.52
89F00267	M	9	3	12.5	4.5	147.2	110	3.6	566.2	1.51
Mean				12.24	4.44	150.94	113.8	3.96	275.38	1.554
Std Dev				0.95	0.27	2.71	3.4	0.44	226.91	0.147
SEM				0.42	0.12	1.21	1.5	0.20	101.48	0.066

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00124	M	10	7	58.0	17.9	28.9	208.9	4.3	973.0	0.0	51.2
89F00136	M	10	7	58.3	27.0	36.7	195.4	4.8	1232.5	0.0	161.8
89F00142	M	10	7	33.2	11.4	64.5	76.1	6.8	578.4	0.0	25.6
89F00168	M	10	7	46.6	21.5	56.2	223.4	6.0	1218.5	0.0	56.1
89F00175	M	10	7	29.6	10.5	42.0	65.5	5.3	564.7	0.0	71.8
Mean				45.14	17.66	45.66	153.86	5.44	913.4	0.00	73.30
Std Dev				13.46	6.94	14.50	76.56	0.99	328.8	0.00	52.19
SEM				6.02	3.10	6.48	34.24	0.44	147.0	0.00	23.34

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00126	M	1	7	33.2	40.0	55.8	183.0	4.9	1282.6	0.0	22.6
89F00130	M	1	7	30.1	28.6	56.9	132.4	5.3	565.7	0.0	17.9
89F00140	M	1	7	33.1	31.4	58.9	51.6	5.4	297.8	0.0	25.6
89F00155	M	1	7	20.4	23.2	52.6	30.9	7.2	340.5	0.0	30.3
89F00166	M	1	7	32.4	21.4	46.3	62.3	5.7	368.9	0.0	24.3
Mean				29.84	28.92	54.10	92.04	5.70	571.1	0.00	24.14
Std Dev				5.42	7.39	4.92	63.56	0.89	410.8	0.00	4.51
SEM				2.43	3.30	2.20	28.43	0.40	183.7	0.00	2.02
89F00118	M	2	7	26.5	26.9	69.1	162.4	5.9	961.9	0.0	31.3
89F00132	M	2	7	25.9	28.9	48.3	53.8	4.3	618.1	0.0	26.4
89F00141	M	2	7	82.5	101.1	55.1	246.7	5.6	1767.3	0.0	23.9
89F00176	M	2	7	38.0	35.9	119.9	37.7	5.8	642.9	0.0	22.1
89F00257	M	2	7	21.4	25.0	56.0	62.5	5.4	1426.0	0.0	32.4
Mean				38.86	43.56	69.68	112.62	5.40	1083.2	0.00	27.22
Std Dev				25.15	32.43	29.07	89.50	0.64	502.6	0.00	4.51
SEM				11.25	14.50	13.00	40.03	0.29	224.8	0.00	2.02
89F00129	M	3	7	40.0	52.3	43.4	50.5	7.0	736.8	0.0	28.4
89F00147	M	3	7	32.1	35.4	58.3	102.3	7.1	450.4	0.0	22.0
89F00154	M	3	7	63.4	56.1	21.0	23.3	4.5	732.4	0.0	33.6
89F00172	M	3	7	39.4	36.3	32.4	24.0	7.7	535.2	0.0	19.6
89F00173	M	3	7	68.4	69.2	31.3	43.1	6.8	470.7	0.0	42.2
Mean				48.66	49.86	37.28	48.64	6.62	585.1	0.00	29.16
Std Dev				16.14	14.25	14.18	32.26	1.23	140.0	0.00	9.12
SEM				7.22	6.37	6.34	14.43	0.55	62.6	0.00	4.08

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
99F00127	M	4	7	34.5	16.4	57.1	104.3	7.1	2875.8	0.0	50.5
99F00131	M	4	7	51.7	15.5	26.9	66.3	6.1	4328.5	0.0	45.6
99F00157	M	4	7	46.3	15.5	71.7	123.3	8.4	792.5	0.0	56.0
99F00169	M	4	7	49.2	10.2	35.9	68.9	7.2	849.7	0.0	30.3
99F00258	M	4	7	35.3	23.5	6.3	100.6	5.5	516.8	0.0	59.0
Mean				43.40	16.22	39.58	92.68	6.86	1872.6	0.00	48.28
Std Dev				8.00	4.75	25.60	24.48	1.11	1665.0	0.00	11.29
SEM				3.58	2.12	11.45	10.95	0.50	744.6	0.00	5.05
99F00116	M	5	7	34.0	11.5	67.2	54.5	3.9	801.9	0.0	31.3
99F00128	M	5	7	28.6	12.2	47.2	65.2	7.5	624.6	0.0	44.1
99F00148	M	5	7	30.3	47.1	28.8	339.0	5.3	8026.6	0.0	26.8
99F00259	M	5	7	18.1	9.3	8.7	62.6	4.5	922.7	0.0	92.3
99F00261	M	5	7	20.5	25.4	28.8	372.8	3.9	1412.7	0.0	72.5
Mean				26.30	21.10	36.14	178.82	5.02	2357.7	0.00	53.40
Std Dev				6.74	15.85	22.07	162.14	1.50	3182.5	0.00	28.11
SEM				3.01	7.09	9.87	72.51	0.67	1423.3	0.00	12.57
99F00120	M	6	7	47.8	12.8	40.8	112.8	5.9	2004.3	0.0	8.2
99F00143	M	6	7	51.6	29.7	30.5	471.1	5.5	1955.6	0.0	62.4
99F00149	M	6	7	32.5	18.5	46.5	258.7	6.7	1284.3	0.0	44.5
99F00177	M	6	7	42.0	11.5	27.9	115.5	6.4	738.0	0.0	24.5
99F00263	M	6	7	24.8	9.0	83.5	72.8	6.6	286.7	0.0	49.5
Mean				39.74	16.30	45.84	206.18	6.22	1253.8	0.00	37.82
Std Dev				11.03	8.26	22.37	164.07	0.51	751.3	0.00	21.45
SEM				4.93	3.69	10.00	73.37	0.23	336.0	0.00	9.59

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00115	M	7	7	41.4	45.7	67.9	70.7	5.5	765.6	0.0	22.0
89F00137	M	7	7	20.8	32.5	100.8	180.8	5.2	701.5	0.0	21.8
89F00164	M	7	7	35.5	44.1	45.7	154.4	7.1	1076.1	0.0	30.2
89F00171	M	7	7	17.6	30.1	86.8	45.3	7.1	240.1	0.0	20.0
89F00264	M	7	7	22.1	20.4	85.5	63.1	6.4	282.8	0.0	35.1
Mean				27.48	34.56	77.34	102.86	6.26	613.2	0.00	25.82
Std Dev				10.36	10.49	21.19	60.54	0.88	351.3	0.00	6.52
SEM				4.63	4.69	9.48	27.07	0.40	157.1	0.00	2.91
89F00266	M	8	7	died							
89F00125	M	8	7	32.3	45.9	65.4	82.9	5.9	945.7	0.0	16.7
89F00145	M	8	7	26.4	35.6	68.7	51.5	8.5	754.0	0.0	20.3
89F00158	M	8	7	35.3	36.2	51.1	84.3	6.7	629.1	0.0	21.7
89F00165	M	8	7	23.3	30.9	57.2	68.4	7.2	488.7	0.0	29.9
Mean				29.33	37.15	60.60	71.78	7.08	703.9	0.00	22.15
Std Dev				5.46	6.30	7.97	15.31	1.09	193.1	0.00	5.58
SEM				2.73	3.15	3.98	7.65	0.55	96.6	0.00	2.79
89F00121	M	9	7	42.6	55.2	51.4	279.2	4.6	1903.5	0.0	23.5
89F00139	M	9	7	23.2	30.7	76.9	43.7	5.2	243.2	0.0	10.8
89F00151		9	7	17.4	36.6	46.0	164.9	4.4	716.8	0.0	31.6
89F00156		9	7	20.7	28.4	53.6	124.3	5.0	840.0	0.0	27.4
89F00267	M	9	7	21.2	57.5	48.5	43.5	6.8	366.8	0.0	18.5
Mean				25.02	41.68	55.28	131.12	5.20	814.0	0.00	22.36
Std Dev				10.05	13.75	12.42	98.02	0.95	656.3	0.00	8.07
SEM				4.49	6.15	5.56	43.84	0.42	293.5	0.00	3.61

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00124	M	10	7	69	0.0	5.9	3.7	1.7	120.2	12.0	0.9
89F00136	M	10	7	83	0.0	5.7	3.9	2.2	121.6	14.9	1.2
89F00142	M	10	7	35	0.0	6.0	4.1	2.1	92.2	16.4	1.0
89F00168	M	10	7	67	0.1	5.7	3.7	1.8	110.2	15.4	1.0
89F00175	M	10	7	54	0.0	6.1	3.5	1.3	119.0	11.1	1.7
Mean				61.6	0.02	5.88	3.78	1.82	112.64	13.96	1.16
Std Dev				18.1	0.04	0.18	0.23	0.36	12.26	2.29	0.32
SEM				8.1	0.02	0.08	0.10	0.16	5.48	1.02	0.14



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00126	M	1	7	47	0.0	5.8	3.5	1.5	123.8	12.2	1.1
89F00130	M	1	7	53	0.0	6.2	3.4	1.2	142.6	22.5	1.3
89F00140	M	1	7	45	0.0	6.3	3.4	1.2	101.6	13.4	1.1
89F00155	M	1	7	149	0.1	5.6	2.9	1.1	121.0	11.8	1.3
89F00166	M	1	7	63	0.0	6.3	3.4	1.1	124.9	16.4	1.2
Mean				71.4	0.02	6.04	3.32	1.22	122.78	15.26	1.20
Std Dev				43.9	0.04	0.32	0.24	0.16	14.58	4.43	0.10
SEM				19.7	0.02	0.14	0.11	0.07	6.52	1.98	0.04
89F00118	M	2	7	88	0.0	6.3	3.2	1.1	114.9	18.5	1.2
89F00132	M	2	7	28	0.0	5.9	2.6	0.8	102.0	10.9	1.1
89F00141	M	2	7	62	0.0	6.9	2.6	0.6	119.6	11.3	1.7
89F00176	M	2	7	53	0.0	6.8	3.2	0.9	122.1	19.2	0.9
89F00257	M	2	7	112	0.0	6.3	3.2	1.0	134.1	14.8	1.0
Mean				68.6	0.00	6.44	2.96	0.88	118.54	14.94	1.18
Std Dev				32.4	0.00	0.41	0.33	0.19	11.65	3.89	0.31
SEM				14.5	0.00	0.18	0.15	0.09	5.21	1.74	0.14
89F00129	M	3	7	21	0.0	7.0	2.5	0.6	142.2	16.5	1.1
89F00147	M	3	7	51	0.0	6.9	3.1	0.8	137.6	17.5	0.9
89F00154	M	3	7	91	0.0	6.6	2.9	0.8	129.0	13.7	0.6
89F00172	M	3	7	80	0.0	6.6	2.8	0.7	109.6	15.5	1.1
89F00173	M	3	7	71	0.0	5.7	2.1	0.6	119.4	13.2	0.9
Mean				62.8	0.00	6.56	2.68	0.70	127.56	15.28	0.92
Std Dev				27.6	0.00	0.51	0.39	0.10	13.29	1.82	0.20
SEM				12.3	0.00	0.23	0.17	0.04	5.94	0.82	0.09

Appendix G (cont.): SEKUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00127	M	4	7	46	0.0	5.8	3.8	1.9	106.9	17.6	1.3
89F00131	M	4	7	84	0.0	6.1	3.5	1.3	110.1	14.3	1.2
89F00157	M	4	7	54	0.0	6.2	4.6	2.7	121.2	18.1	1.3
89F00169	M	4	7	42	0.0	5.4	3.6	2.0	125.5	18.7	1.6
89F00258	M	4	7	97	0.0	5.5	3.5	1.8	144.2	13.4	2.1
Mean				64.6	0.00	5.80	3.80	1.94	121.58	16.42	1.50
Std Dev				24.5	0.00	0.35	0.46	0.50	14.79	2.40	0.37
SEM				10.9	0.00	0.16	0.21	0.22	6.61	1.07	0.16
89F00116	M	5	7	221	0.0	6.1	4.3	2.4	130.5	19.5	2.4
89F00128	M	5	7	55	0.0	5.3	3.6	2.0	120.9	14.0	1.2
89F00148	M	5	7	78	0.0	5.6	4.0	2.5	108.9	12.2	1.0
89F00259	M	5	7	39	0.0	6.3	3.6	1.4	122.2	10.8	0.8
89F00261	M	5	7	49	0.0	5.6	3.6	1.8	164.6	12.4	0.8
Mean				88.4	0.00	5.78	3.82	2.02	129.42	13.78	1.24
Std Dev				75.5	0.00	0.41	0.32	0.45	21.12	3.39	0.67
SEM				33.8	0.00	0.18	0.14	0.20	9.45	1.52	0.30
89F00120	M	6	7	60	0.0	5.8	3.8	1.9	118.3	15.2	1.0
89F00143	M	6	7	56	0.0	6.1	3.8	1.7	132.2	13.3	1.1
89F00149	M	6	7	102	0.0	6.0	4.3	2.5	120.6	18.0	1.0
89F00177	M	6	7	49	0.0	5.4	3.6	2.0	126.9	19.9	1.0
89F00263	M	6	7	88	0.1	6.4	3.6	1.3	124.1	19.3	1.1
Mean				71.0	0.02	5.94	3.82	1.88	124.42	17.14	1.04
Std Dev				22.8	0.04	0.37	0.29	0.44	5.45	2.81	0.05
SEM				10.2	0.02	0.17	0.13	0.20	2.44	1.26	0.02

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00115	M	7	7	90	0.0	6.5	3.5	1.2	109.1	17.2	1.1
89F00137	M	7	7	54	0.0	6.3	3.4	1.2	109.2	15.9	0.9
89F00164	M	7	7	83	0.1	5.9	3.3	1.2	122.9	11.0	1.0
89F00171	M	7	7	77	0.0	6.5	3.4	1.1	133.6	13.4	1.7
89F00264	M	7	7	78	0.2	5.9	3.9	2.0	145.9	17.3	1.0
Mean				76.4	0.06	6.22	3.50	1.34	124.14	14.96	1.14
Std Dev				13.5	0.09	0.30	0.23	0.37	15.92	2.72	0.32
SEM				6.1	0.04	0.14	0.10	0.17	7.12	1.21	0.14
89F00266	M	8	7	died							
89F00125	M	8	7	46	0.0	6.5	2.9	0.8	115.2	11.0	1.0
89F00145	M	8	7	25	0.0	6.2	3.1	1.0	130.0	18.0	1.1
89F00158	M	8	7	47	0.0	6.7	3.1	0.9	122.0	16.6	1.1
89F00165	M	8	7	31	0.0	6.6	3.1	0.9	148.7	12.0	1.1
Mean				37.3	0.00	6.50	3.05	0.90	128.98	14.40	1.08
Std Dev				11.0	0.00	0.22	0.10	0.08	14.47	3.42	0.05
SEM				5.5	0.00	0.11	0.05	0.04	7.24	1.71	0.02
89F00121	M	9	7	35	0.0	4.7	3.2	2.2	123.6	12.7	1.1
89F00139	M	9	7	35	0.0	8.3	3.2	0.6	130.7	15.5	0.9
89F00151	M	9	7	38	0.0	6.7	2.4	0.6	116.1	12.8	1.0
89F00156	M	9	7	48	0.1	6.6	3.3	1.0	153.6	11.2	1.1
89F00267	M	9	7	36	0.0	6.7	2.9	0.8	123.1	7.6	0.8
Mean				38.4	0.02	6.60	3.00	1.04	129.42	11.96	0.98
Std Dev				5.5	0.04	1.28	0.37	0.67	14.47	2.89	0.13
SEM				2.5	0.02	0.57	0.16	0.30	6.47	1.29	0.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00124	M	10	7	12.7	4.3	150.2	110	3.6	317.2	1.70
89F00136	M	10	7	13.2	3.9	150.7	118	3.3	272.3	1.23
89F00142	M	10	7	14.1	4.0	152.4	110	4.0	660.2	1.61
89F00168	M	10	7	13.1	4.3	149.6	114	3.9	41.5	1.53
89F00175	M	10	7	13.3	3.1	151.5	113	3.7	347.9	1.34
Mean				13.28	3.92	150.88	113.0	3.70	327.82	1.482
Std Dev				0.51	0.49	1.10	3.3	0.27	221.39	0.194
SEM				0.23	0.22	0.49	1.5	0.12	99.01	0.087

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00126	M	1	7	12.5	3.9	153.5	122	3.8	204.4	1.46
89F00130	M	1	7	12.1	4.8	148.6	117	4.5	68.0	1.77
89F00140	M	1	7	12.1	4.3	151.0	114	3.5	330.9	1.65
89F00155	M	1	7	13.1	4.4	142.7	108	3.8	418.8	1.46
89F00166	M	1	7	13.5	3.4	150.7	113	4.1	470.6	1.52
Mean				12.66	4.16	149.30	114.8	3.94	298.54	1.572
Std Dev				0.62	0.53	4.08	5.2	0.38	163.65	0.135
SEM				0.28	0.24	1.82	2.3	0.17	73.19	0.060
89F00118	M	2	7	12.3	6.2	148.1	118	4.3	301.0	1.84
89F00132	M	2	7	11.9	4.4	151.9	113	3.4	443.4	1.51
89F00141	M	2	7	10.7	4.2	148.3	115	2.6	241.9	1.34
89F00176	M	2	7	11.4	2.4	150.3	113	5.2	29.0	1.82
89F00257	M	2	7	12.6	4.5	147.2	112	4.2	465.9	1.56
Mean				11.78	4.34	149.16	114.2	3.94	296.24	1.614
Std Dev				0.75	1.35	1.90	2.4	0.98	176.66	0.213
SEM				0.34	0.60	0.85	1.1	0.44	79.00	0.095
89F00129	M	3	7	11.4	3.4	149.6	113	4.4	280.5	1.60
89F00147	M	3	7	12.2	5.2	145.4	113	3.8	163.3	1.58
89F00154	M	3	7	9.9	3.6	151.1	113	3.9	148.4	1.33
89F00172	M	3	7	11.5	4.8	147.0	114	4.0	147.9	1.52
89F00173	M	3	7	10.2	4.0	149.9	114	3.5	97.2	1.02
Mean				11.04	4.20	148.60	113.4	3.92	167.46	1.410
Std Dev				0.96	0.77	2.33	0.5	0.33	67.97	0.243
SEM				0.43	0.35	1.04	0.2	0.15	30.40	0.109

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00127	M	4	7	13.6	5.0	151.6	109	3.9	824.3	1.88
89F00131	M	4	7	13.6	3.4	151.5	110	4.2	1178.9	1.56
89F00157	M	4	7	14.8	4.7	150.8	113	5.3	314.5	1.96
89F00169	M	4	7	13.2	4.0	151.1	115	4.0	575.1	1.75
89F00258	M	4	7	12.0	3.9	145.3	122	4.6	91.8	1.66
Mean				13.44	4.20	150.06	113.8	4.40	596.92	1.762
Std Dev				1.00	0.64	2.68	5.2	0.57	425.97	0.162
SEM				0.45	0.29	1.20	2.3	0.25	190.50	0.072
89F00116	M	5	7	14.7	5.5	149.6	106	4.3	761.4	1.99
89F00128	M	5	7	12.8	3.4	152.2	115	3.2	466.9	1.91
89F00148	M	5	7	14.2	3.7	147.7	115	3.9	136.5	1.74
89F00259	M	5	7	12.2	3.8	145.8	114	3.8	1030.3	1.39
89F00261	M	5	7	11.4	4.3	146.4	115	4.7	47.0	1.76
Mean				13.06	4.14	148.34	113.0	3.98	488.42	1.758
Std Dev				1.37	0.83	2.60	3.9	0.56	414.52	0.231
SEM				0.61	0.37	1.16	1.8	0.25	185.38	0.103
89F00120	M	6	7	14.8	4.5	154.1	118	3.6	570.3	1.81
89F00143	M	6	7	12.9	4.0	149.7	110	4.4	361.2	1.70
89F00149	M	6	7	13.7	5.1	153.0	120	4.1	260.8	1.75
89F00177	M	6	7	14.0	4.0	147.6	111	4.7	257.2	1.73
89F00263	M	6	7	13.1	4.8	148.6	113	4.2	1106.6	1.57
Mean				13.70	4.48	150.60	114.4	4.20	511.22	1.712
Std Dev				0.76	0.49	2.82	4.4	0.41	356.27	0.089
SEM				0.34	0.22	1.26	2.0	0.18	159.33	0.040

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00115	M	7	7	12.8	4.5	147.6	114	3.9	422.7	1.63
89F00137	M	7	7	13.8	5.4	151.4	112	4.1	132.7	1.99
89F00164	M	7	7	11.7	3.1	150.4	121	4.3	103.2	1.61
89F00171	M	7	7	12.3	3.9	144.9	118	3.6	429.7	1.51
89F00264	M	7	7	12.4	5.5	146.0	115	4.2	141.9	1.57
Mean				12.60	4.48	148.06	116.0	4.02	246.04	1.662
Std Dev				0.78	1.02	2.79	3.5	0.28	165.10	0.189
SEM				0.35	0.45	1.25	1.6	0.12	73.84	0.085
89F00266	M	8	7	died						
89F00125	M	8	7	12.6	3.7	149.6	115	4.5	485.7	1.68
89F00145	M	8	7	13.2	3.8	152.8	115	4.3	414.7	1.71
89F00158	M	8	7	12.9	4.0	147.7	116	5.0	NT	1.57
89F00165	M	8	7	9.1	12.8*	148.4	115	3.9	158.7	1.46
Mean				11.95	3.83	149.63	115.3	4.43	353.03	1.605
Std Dev				1.92	0.15	2.26	0.5	0.46	172.00	0.114
SEM				0.96	0.09	1.13	0.3	0.23	99.30	0.057
89F00121	M	9	7	11.6	4.7	149.2	116	3.8	277.7	1.64
89F00139	M	9	7	12.3	4.4	150.9	116	3.9	202.4	1.48
89F00151	M	9	7	10.2	3.9	144.2	115	3.1	108.4	1.09
89F00156	M	9	7	10.7	4.6	145.0	116	3.7	8.1*	1.47
89F00267	M	9	7	10.3	3.3	139.4	108	3.3	522.3	1.22
Mean				11.02	4.18	145.74	114.2	3.56	277.70	1.380
Std Dev				0.90	0.58	4.52	3.5	0.34	177.16	0.221
SEM				0.40	0.26	2.02	1.6	0.15	88.58	0.099

\* Value is considered to be an outlier and is not included in the group mean or statistical analysis.

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00124	M	10	14	35.6	16.9	42.0	166.2	4.1	926.3	0.0	28.5
89F00136	M	10	14	48.3	24.6	26.3	196.7	2.7	1873.7	0.0	132.2
89F00142	M	10	14	36.0	13.3	73.2	62.0	3.7	895.8	0.0	18.9
89F00168	M	10	14	48.7	62.9	72.0	176.9	5.8	3944.2	0.0	29.7
89F00175	M	10	14	37.4	17.8	56.9	183.5	4.8	1355.7	0.0	81.2
Mean				41.20	27.10	54.08	157.06	4.22	1799.2	0.00	58.10
Std Dev				6.70	20.43	20.08	54.28	1.16	1263.1	0.00	48.07
SEM				3.00	9.13	8.98	24.27	0.52	564.9	0.00	21.50



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00126	M	1	14	23.7	28.9	56.1	129.3	4.8	899.0	0.0	15.7
89F00130	M	1	14	24.7	27.7	48.5	111.6	3.2	1034.3	0.0	26.7
89F00140	M	1	14	110.1	102.7	71.3	45.9	2.5	487.7	0.0	9.1
89F00155	M	1	14	17.3	32.6	48.8	34.4	4.8	518.4	0.0	19.4
89F00166	M	1	14	36.2	31.9	22.2	137.9	3.0	915.5	0.0	59.0
Mean				42.40	44.76	49.38	91.82	3.66	771.0	0.00	25.98
Std Dev				38.45	32.45	17.79	48.28	1.07	250.3	0.00	19.52
SEM				17.20	14.51	7.95	21.59	0.48	112.0	0.00	8.73
89F00118	M	2	14	20.8	31.3	59.1	179.3	7.3	1308.6	0.0	54.3
89F00132	M	2	14	24.5	24.6	67.8	33.2	2.5	399.8	0.0	22.3
89F00141	M	2	14	29.6	45.7	43.5	199.4	NT	1026.0	0.0	58.9
89F00176	M	2	14	40.4	45.5	118.3	79.5	3.2	832.3	0.0	11.7
89F00257	M	2	14	31.6	53.8	68.5	35.3	4.0	1216.2	0.0	22.1
Mean				29.38	40.18	71.44	105.34	4.25	956.6	0.00	33.86
Std Dev				7.48	11.89	28.07	79.21	2.12	361.1	0.00	21.26
SEM				3.35	5.32	12.55	35.42	1.06	161.5	0.00	9.51
89F00129	M	3	14	34.5	41.6	37.4	26.7	5.7	340.2	0.0	30.3
89F00147	M	3	14	61.2	48.5	44.3	44.4	4.2	272.2	0.0	36.9
89F00154	M	3	14	died							
89F00172	M	3	14	76.2	58.6	24.8	91.4	6.0	662.1	0.0	50.3
89F00173	M	3	14	17.4	19.3	30.9	76.4	6.4	424.0	0.0	54.1
Mean				47.33	42.00	34.35	59.73	5.58	424.6	0.00	42.90
Std Dev				26.37	16.67	8.39	29.48	0.96	170.1	0.00	11.18
SEM				13.19	8.33	4.20	14.74	0.48	85.0	0.00	5.59

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00127	M	4	14	32.5	18.5	37.1	150.2	5.3	548.5	0.0	47.5
89F00131	M	4	14	29.4	13.3	45.1	163.7	5.8	769.5	0.0	67.6
89F00157	M	4	14	81.1	32.8	45.2	207.1	7.3	2559.9	0.0	91.7
89F00169	M	4	14	43.3	19.1	19.2	121.2	4.7	1263.0	0.0	28.4
89F00258	M	4	14	57.0	33.1	16.3	157.4	7.1	777.4	0.0	129.6
Mean				48.66	23.36	32.58	159.92	6.04	1183.7	0.00	72.96
Std Dev				21.11	9.04	13.97	30.99	1.13	812.5	0.00	39.44
SEM				9.44	4.04	6.25	13.86	0.51	363.3	0.00	17.64
89F00116	M	5	14	30.3	11.0	70.6	103.4	4.4	813.4	0.0	34.6
89F00128	M	5	14	35.4	16.0	56.2	98.1	7.4	713.0	0.0	27.2
89F00148	M	5	14	30.4	51.7	22.0	460.5	0.6	1187.9	0.0	30.0
89F00259	M	5	14	13.8	22.9	22.2	448.5	2.6	2219.7	0.0	62.4
89F00261	M	5	14	11.1	20.9	28.7	447.7	2.9	2212.1	0.0	94.8
Mean				24.20	24.50	39.94	311.64	3.58	1429.2	0.00	49.80
Std Dev				10.96	15.89	22.18	192.59	2.53	739.6	0.00	28.80
SEM				4.90	7.11	9.92	86.13	1.13	330.8	0.00	12.88
89F00120	M	6	14	32.1	13.3	45.8	153.6	5.3	1496.0	0.0	28.9
89F00143	M	6	14	42.5	15.2	36.2	186.2	0.6	1174.1	0.0	34.2
89F00149	M	6	14	39.3	27.1	34.3	179.4	6.7	1667.2	0.0	59.0
89F00177	M	6	14	74.9	22.1	14.2	179.5	4.9	1418.9	0.0	25.9
89F00263	M	6	14	15.1	27.3	141.8	553.9	11.0	2510.2	0.0	80.0
Mean				40.78	21.00	54.46	250.52	5.70	1653.2	0.00	45.60
Std Dev				21.82	6.54	50.16	170.05	3.74	510.8	0.00	23.24
SEM				9.76	2.92	22.43	76.05	1.67	228.5	0.00	10.39

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00115	M	7	14	41.2	47.3	47.9	103.2	5.4	756.5	0.0	19.4
89F00137	M	7	14	18.8	31.7	99.7	34.4	3.9	482.2	0.0	13.4
89F00164	M	7	14	27.3	52.2	32.7	284.8	3.1	1733.7	0.0	45.3
89F00171	M	7	14	19.9	32.0	59.6	34.1	3.3	485.9	0.0	20.3
89F00264	M	7	14	14.2	26.4	71.9	433.2	4.1	1661.9	0.0	25.1
Mean				24.28	37.92	62.36	177.94	3.96	1024.0	0.00	24.70
Std Dev				10.56	11.16	25.41	175.68	0.90	625.6	0.00	12.24
SEM				4.72	4.99	11.36	78.57	0.40	279.8	0.00	5.48
89F00125	M	8	14	29.9	39.0	37.7	141.1	7.0	954.4	0.0	21.0
89F00145	M	8	14	18.2	34.7	71.0	33.9	NT	397.4	0.0	13.2
89F00158	M	8	14	died							
89F00165	M	8	14	18.4	34.3	32.1	72.8	5.5	1079.3	0.0	42.3
89F00266	M	8	14	died							
Mean				22.17	36.00	46.93	82.60	6.25	810.4	0.00	25.50
Std Dev				6.70	2.61	21.03	54.27	1.06	363.1	0.00	15.06
SEM				3.87	1.50	12.14	31.33	0.75	209.6	0.00	8.70
89F00121	M	9	14	25.1	44.3	47.4	124.6	3.9	835.6	0.0	8.6
89F00139	M	9	14	19.4	33.5	85.4	92.7	0.7	478.6	0.0	5.9
89F00151	M	9	14	79.2	75.3	49.8	301.3	7.0	1299.6	0.0	76.7
89F00156	M	9	14	14.5	35.5	66.9	98.1	3.7	530.0	0.0	18.0
89F00267	M	9	14	18.9	60.6	31.1	45.6	4.5	450.2	0.0	58.1
Mean				31.42	49.34	56.72	132.46	3.96	718.8	0.00	33.46
Std Dev				26.97	17.80	19.83	98.58	2.25	359.3	0.00	31.99
SEM				12.06	7.96	8.87	44.69	1.01	160.7	0.00	14.31

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00124	M	10	14	47	0.0	5.8	3.5	1.6	109.7	12.9	0.9
89F00136	M	10	14	225	0.0	6.2	3.3	1.1	146.9	13.3	1.0
89F00142	M	10	14	27	0.0	5.8	4.2	2.6	89.5	17.9	1.2
89F00168	M	10	14	42	0.0	6.1	4.0	1.9	122.6	16.4	1.0
89F00175	M	10	14	108	0.0	6.0	3.8	1.7	139.1	16.2	0.9
Mean				89.8	0.00	5.98	3.76	1.78	121.56	15.34	1.00
Std Dev				81.7	0.00	0.18	0.36	0.54	23.02	2.15	0.12
SEM				36.5	0.00	0.08	0.16	0.24	10.29	0.96	0.05

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00126	M	1	14	81	0.0	6.1	3.3	1.2	112.5	16.4	0.9
89F00130	M	1	14	40	0.0	5.9	2.9	1.0	137.3	13.9	1.0
89F00140	M	1	14	29	0.0	6.3	2.6	0.7	104.8	12.7	1.0
89F00155	M	1	14	33	0.0	6.9	3.5	1.0	116.8	9.3	0.9
89F00166	M	1	14	139	0.0	6.1	3.1	1.0	132.7	12.0	0.7
Mean				64.4	0.00	6.26	3.08	0.98	120.82	12.86	0.90
Std Dev				46.6	0.00	0.38	0.35	0.18	13.74	2.60	0.12
SEM				20.8	0.00	0.17	0.16	0.08	6.14	1.16	0.05
89F00118	M	2	14	53	0.0	6.2	2.6	0.7	119.6	19.2	1.0
89F00132	M	2	14	24	0.0	6.8	3.2	0.9	100.8	14.8	1.1
89F00141	M	2	14	92	0.0	7.8	3.3	0.8	115.8	13.8	1.0
89F00176	M	2	14	42	0.0	7.2	3.1	0.8	128.2	20.7	0.9
89F00257	M	2	14	68	0.0	6.6	3.2	0.9	100.9	17.3	1.7
Mean				55.8	0.00	6.92	3.08	0.82	113.06	17.16	1.14
Std Dev				25.8	0.00	0.61	0.28	0.08	12.02	2.90	0.32
SEM				11.6	0.00	0.27	0.12	0.04	5.37	1.30	0.14
89F00129	M	3	14	49	0.0	7.3	2.5	0.5	130.0	16.3	1.0
89F00147	M	3	14	24	0.0	7.9	3.1	0.6	136.9	16.5	1.0
89F00154	M	3	14	died							
89F00172	M	3	14	53	0.0	7.6	2.9	0.6	131.9	18.5	1.4
89F00173	M	3	14	111	0.0	7.2	2.9	0.7	150.4	12.1	0.8
Mean				59.3	0.00	7.50	2.85	0.60	137.30	15.85	1.05
Std Dev				36.8	0.00	0.32	0.25	0.08	9.21	2.69	0.25
SEM				18.4	0.00	0.16	0.13	0.04	4.60	1.35	0.13

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00127	M	4	14	49	0.0	5.1	3.3	1.9	89.9	16.2	1.0
89F00131	M	4	14	34	0.0	5.5	3.8	2.3	107.1	15.1	1.1
89F00157	M	4	14	194	0.1	5.5	2.9	1.2	123.8	11.0	0.9
89F00169	M	4	14	104	0.0	5.8	3.4	1.4	162.9	17.0	1.3
89F00258	M	4	14	393	0.3	6.0	3.5	1.4	117.3	20.0	1.6
Mean				154.8	0.08	5.58	3.38	1.64	120.20	15.86	1.18
Std Dev				147.2	0.13	0.34	0.33	0.45	27.08	3.27	0.28
SEM				65.8	0.06	0.15	0.15	0.20	12.11	1.46	0.12
89F00116	M	5	14	64	0.0	6.1	4.1	2.1	116.5	16.9	1.1
89F00128	M	5	14	106	0.0	5.1	3.6	2.4	114.8	15.4	1.0
89F00148	M	5	14	101	0.0	5.9	4.3	2.7	112.2	12.6	0.9
89F00259	M	5	14	66	0.2	6.3	4.0	1.8	90.6	16.3	1.0
89F00261	M	5	14	94	0.1	5.8	3.7	1.8	103.1	12.8	0.8
Mean				86.2	0.06	5.84	3.94	2.16	107.44	14.80	0.96
Std Dev				19.8	0.09	0.46	0.29	0.39	10.74	1.99	0.11
SEM				8.9	0.04	0.20	0.13	0.17	4.80	0.89	0.05
89F00120	M	6	14	84	0.0	5.4	3.9	2.5	130.5	17.6	1.1
89F00143	M	6	14	39	0.0	6.3	4.7	3.0	116.6	13.5	1.2
89F00149	M	6	14	108	0.0	6.4	3.8	1.5	127.9	12.4	0.9
89F00177	M	6	14	70	0.0	6.7	3.5	1.1	157.7	15.3	0.8
89F00263	M	6	14	101	0.0	4.9	2.8	1.3	87.2	15.4	1.0
Mean				80.4	0.00	5.94	3.74	1.88	123.98	14.84	1.00
Std Dev				27.5	0.00	0.76	0.69	0.83	25.51	1.99	0.16
SEM				12.3	0.00	0.34	0.31	0.37	11.41	0.89	0.07

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00115	M	7	14	66	0.0	6.6	3.1	0.9	94.2	14.4	1.1
89F00137	M	7	14	35	0.0	6.8	3.4	1.0	120.9	14.8	0.8
89F00164	M	7	14	46	0.0	6.2	3.2	1.1	150.1	19.3	1.0
89F00171	M	7	14	44	0.0	7.1	3.1	0.8	138.6	9.8	1.5
89F00264	M	7	14	46	0.1	5.7	3.3	1.4	113.8	11.9	0.9
Mean				47.4	0.02	6.48	3.22	1.04	123.52	14.04	1.06
Std Dev				11.3	0.04	0.54	0.13	0.23	21.77	3.57	0.27
SEM				5.1	0.02	0.24	0.06	0.10	9.73	1.60	0.12
89F00125	M	8	14	41	0.0	6.5	2.5	0.6	122.6	13.3	1.1
89F00145	M	8	14	23	0.0	7.3	2.9	0.7	122.0	13.2	1.1
89F00158	M	8	14	died							
89F00165	M	8	14	48	0.0	6.3	2.4	0.6	132.9	12.4	1.0
89F00266	M	8	14	died							
Mean				37.3	0.00	6.70	2.60	0.63	125.83	12.97	1.07
Std Dev				12.9	0.00	0.53	0.26	0.06	6.13	0.49	0.06
SEM				7.4	0.00	0.31	0.15	0.03	3.54	0.28	0.03
89F00121	M	9	14	25	0.0	7.8	3.1	0.6	108.7	15.6	1.0
89F00139	M	9	14	25	0.0	8.5	3.5	0.7	143.8	19.5	0.9
89F00151	M	9	14	114	0.1	7.6	2.4	0.5	130.4	20.9	1.4
89F00156	M	9	14	28	0.0	7.7	2.7	0.5	135.4	14.1	1.0
89F00267	M	9	14	69	0.0	7.4	2.5	0.5	90.9	9.5	1.0
Mean				52.2	0.02	7.80	2.84	0.56	121.84	15.92	1.06
Std Dev				39.3	0.04	0.42	0.46	0.09	21.62	4.53	0.19
SEM				17.6	0.02	0.19	0.20	0.04	9.67	2.03	0.09

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00124	M	10	14	13.8	4.5	150.3	115	3.7	182.4	1.59
89F00136	M	10	14	14.0	2.9	151.2	120	4.7	47.2	1.27
89F00142	M	10	14	13.3	4.4	152.4	112	4.3	144.0	1.82
89F00168	M	10	14	14.7	5.0	154.4	117	3.1	316.5	1.67
89F00175	M	10	14	13.4	3.8	149.8	118	4.2	71.6	1.21
Mean				13.84	4.12	151.72	116.4	4.00	152.34	1.512
Std Dev				0.56	0.80	1.76	3.0	0.62	106.65	0.263
SEM				0.25	0.36	0.79	1.4	0.28	47.69	0.117



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00126	M	1	14	13.1	3.9	149.4	116	4.1	257.8	1.43
89F00130	M	1	14	11.8	3.3	146.0	115	3.9	69.0	1.33
89F00140	M	1	14	11.8	2.9	150.7	114	2.8	205.8	1.22
89F00155	M	1	14	13.5	3.6	156.7	113	3.1	180.4	1.42
89F00166	M	1	14	12.5	3.0	145.6	113	4.3	52.0	1.29
Mean				12.54	3.34	149.68	114.2	3.64	153.00	1.338
Std Dev				0.76	0.42	4.49	1.3	0.65	89.13	0.089
SEM				0.34	0.19	2.01	0.6	0.29	39.86	0.040
89F00118	M	2	14	12.5	5.3	148.8	115	4.1	162.3	1.50
89F00132	M	2	14	11.9	5.0	145.1	109	4.0	98.1	1.76
89F00141	M	2	14	14.6	3.9	146.6	114	5.4	172.1	1.42
89F00176	M	2	14	12.5	4.5	145.3	106	4.3	139.6	1.24
89F00257	M	2	14	12.0	3.4	146.0	114	4.0	560.6	1.42
Mean				12.70	4.42	146.36	111.6	4.36	226.54	1.468
Std Dev				1.10	0.78	1.49	3.9	0.59	188.91	0.189
SEM				0.49	0.35	0.67	1.7	0.27	84.48	0.085
89F00129	M	3	14	11.7	3.7	151.0	113	4.1	179.4	1.43
89F00147	M	3	14	12.3	4.1	147.1	114	3.9	362.9	1.51
89F00154	M	3	14	died						
89F00172	M	3	14	10.8	5.8	142.5	111	4.7	58.6	1.35
89F00173	M	3	14	12.3	5.7	143.4	110	4.1	88.5	1.26
Mean				11.78	4.83	146.00	112.0	4.20	172.35	1.388
Std Dev				0.71	1.08	3.88	1.8	0.35	137.03	0.107
SEM				0.35	0.54	1.94	0.9	0.17	68.51	0.054

## Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00127	M	4	14	12.7	4.6	138.3	103	3.8	134.9	1.66
89F00131	M	4	14	12.4	3.8	149.9	112	4.4	265.8	1.69
89F00157	M	4	14	14.2	3.9	153.7	111	3.0	106.5	1.45
89F00169	M	4	14	13.0	3.8	146.4	116	4.1	42.9	1.52
89F00258	M	4	14	12.6	5.0	151.2	115	4.0	21.5	1.72
Mean				12.98	4.22	147.90	111.4	3.86	114.32	1.608
Std Dev				0.72	0.55	5.98	5.1	0.53	96.37	0.117
SEM				0.32	0.25	2.67	2.3	0.24	43.10	0.052
89F00116	M	5	14	14.5	4.8	152.1	113	4.5	94.4	1.96
89F00128	M	5	14	13.7	3.2	145.4	111	3.7	216.6	1.80
89F00148	M	5	14	13.4	4.4	146.6	122	5.8	47.0	1.66
89F00259	M	5	14	14.6	5.7	148.5	109	4.8	97.7	1.98
89F00261	M	5	14	12.6	5.0	144.4	111	4.1	72.1	1.72
Mean				13.76	4.62	147.40	113.2	4.58	105.56	1.824
Std Dev				0.83	0.92	3.04	5.1	0.80	65.32	0.142
SEM				0.37	0.41	1.36	2.3	0.36	29.21	0.064
89F00120	M	6	14	13.9	4.6	149.9	117	4.1	208.0	1.85
89F00143	M	6	14	14.1	4.5	148.2	112	3.9	279.1	1.91
89F00149	M	6	14	14.2	4.5	150.5	119	3.9	105.2	1.73
89F00177	M	6	14	NT*	2.7	141.8	104	22.7*	782.4	NT
89F00263	M	6	14	12.3	4.9	146.4	110	3.9	65.5	1.50
Mean				13.63	4.24	147.36	112.4	3.95	288.04	1.748
Std Dev				0.89	0.88	3.49	5.9	0.10	288.89	0.181
SEM				0.45	0.39	1.56	2.7	0.05	129.20	0.091

\* Value is considered to be an outlier and is not included in the group mean or statistical analysis.

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00115	M	7	14	12.6	4.4	149.6	115	4.1	31.5	1.76
89F00137	M	7	14	11.8	4.7	149.8	111	3.8	328.9	1.72
89F00164	M	7	14	10.1	6.3	147.8	113	3.9	47.1	1.29
89F00171	M	7	14	11.6	3.7	146.3	105	3.2	525.1	1.13
89F00264	M	7	14	12.8	4.5	146.0	111	3.9	71.7	1.51
Mean				11.78	4.72	147.90	111.0	3.78	200.86	1.482
Std Dev				1.07	0.96	1.78	3.7	0.34	218.25	0.272
SEM				0.48	0.43	0.80	1.7	0.15	97.60	0.122
89F00125	M	8	14	11.0	4.1	145.4	113	4.1	31.4	1.41
89F00145	M	8	14	13.3	3.4	148.8	109	4.6	122.3	1.70
89F00158	M	8	14	died						
89F00165	M	8	14	10.2	3.2	144.6	117	3.4	64.9	1.17
89F00266	M	8	14	died						
Mean				11.50	3.57	146.27	113.0	4.03	72.87	1.427
Std Dev				1.61	0.47	2.23	4.0	0.60	45.97	0.265
SEM				0.93	0.27	1.29	2.3	0.35	26.54	0.153
89F00121	M	9	14	11.4	3.8	146.4	116	3.7	98.6	1.45
89F00139	M	9	14	12.7	4.3	150.6	120	4.1	94.9	1.62
89F00151	M	9	14	10.9	4.5	144.4	117	3.6	126.9	1.24
89F00156	M	9	14	12.8	4.8	153.8	113	3.0	106.4	1.35
89F00267	M	9	14	10.8	2.8	148.0	113	2.7	847.4	1.10
Mean				11.72	4.04	148.64	115.8	3.42	254.84	1.352
Std Dev				0.97	0.78	3.67	2.9	0.56	331.48	0.198
SEM				0.43	0.35	1.64	1.3	0.25	148.24	0.089

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00350	F	10	-7	22.4	10.5	101.7	105.4	6.6	449.0	0.0	39.2
89F00351	F	10	-7	73.7	69.0	84.9	377.0	6.9	25761.0	0.0	75.3
89F00364	F	10	-7	35.1	25.8	67.9	360.1	5.1	765.2	0.0	41.8
89F00373	F	10	-7	37.6	10.3	109.3	94.6	8.3	482.7	0.0	58.1
89F00381	F	10	-7	36.0	24.5	71.5	416.4	3.8	18476.7	0.0	54.6
Mean				40.96	28.02	87.06	270.70	6.14	9186.9	0.00	53.80
Std Dev				19.28	24.07	18.19	157.21	1.73	12083.5	0.00	14.48
SEM				8.62	10.76	8.13	70.30	0.77	5403.9	0.00	6.48

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00338	F	1	-7	22.9	15.0	91.5	134.3	6.2	785.3	0.0	60.9
89F00339	F	1	-7	47.8	14.1	186.9	85.6	5.9	553.9	0.0	100.7
89F00352	F	1	-7	49.0	68.7	66.2	418.2	4.6	28470.2	0.0	71.4
89F00369	F	1	-7	39.6	36.5	101.1	90.6	7.2	422.4	0.0	64.2
89F00377	F	1	-7	44.5	32.3	144.8	291.6	6.2	14640.2	0.0	65.8
Mean				40.76	33.42	118.10	204.06	6.02	8974.4	0.00	72.60
Std Dev				10.63	22.18	47.79	146.02	0.93	12482.9	0.00	16.16
SEM				4.75	9.92	21.37	65.30	0.42	5582.5	0.00	7.23
89F00337	F	2	-7	45.3	19.0	316.4	251.4	4.7	682.7	0.0	140.8
89F00358	F	2	-7	32.7	20.2	57.4	308.9	7.1	531.0	0.0	91.1
89F00371	F	2	-7	18.0	12.5	80.6	67.0	8.4	285.5	0.0	76.6
89F00389	F	2	-7	18.9	18.7	79.2	319.4	4.0	1234.1	0.0	72.3
89F00391	F	2	-7	32.7	34.4	85.7	138.7	5.4	1257.3	0.0	49.3
Mean				29.52	20.96	123.86	217.08	5.92	798.1	0.00	86.02
Std Dev				11.34	8.09	108.18	110.39	1.80	432.5	0.00	34.10
SEM				5.07	3.62	48.38	49.37	0.81	193.4	0.00	15.25
89F00348	F	3	-7	32.0	14.9	98.4	180.7	7.1	985.7	0.0	86.5
89F00355	F	3	-7	37.3	24.2	1.8	160.6	5.8	13062.6	0.0	88.9
89F00368	F	3	-7	36.0	10.4	88.8	65.1	5.8	300.7	0.0	54.3
89F00370	F	3	-7	77.5	16.6	34.7	99.5	6.8	503.1	0.0	61.9
89F00393	F	3	-7	46.4	29.4	110.4	495.0	8.4	26009.7	0.0	89.3
Mean				45.84	19.10	66.82	200.18	6.78	8172.4	0.00	76.18
Std Dev				18.47	7.61	46.47	171.21	1.08	11341.4	0.00	16.76
SEM				8.26	3.40	20.78	76.57	0.48	5072.0	0.00	7.49

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00345	F	4	-7	38.8	17.3	115.8	157.5	6.5	721.0	0.0	67.3
89F00354	F	4	-7	37.9	41.0	91.5	539.5	4.3	27537.1	0.0	68.2
89F00374	F	4	-7	88.8	34.7	148.8	128.0	12.2	798.1	0.0	85.2
89F00380	F	4	-7	63.6	71.3	229.3	471.2	3.4	24238.5	0.0	69.8
89F00387	F	4	-7	66.5	81.7	79.3	438.4	4.3	29813.1	0.0	70.1
Mean				59.12	49.20	132.94	346.92	6.14	16621.6	0.00	72.12
Std Dev				21.32	26.64	60.05	190.20	3.58	14615.0	0.00	7.40
SEM				9.54	11.92	26.86	85.06	1.60	6536.0	0.00	3.31
89F00341	F	5	-7	25.0	18.4	111.0	145.0	3.3	595.9	0.0	87.3
89F00347	F	5	-7	39.8	14.2	67.8	101.4	7.0	358.2	0.0	85.0
89F00360	F	5	-7	20.8	19.8	144.5	317.1	2.6	749.9	0.0	32.4
89F00375	F	5	-7	42.5	13.0	113.0	52.3	11.1	1629.3	0.0	60.9
89F00394	F	5	-7	NT	NT	NT	NT	NT	NT	NT	NT
Mean				32.03	16.35	109.08	153.95	6.00	833.3	0.00	66.40
Std Dev				10.73	3.26	31.50	115.17	3.91	554.6	0.00	25.62
SEM				5.37	1.63	15.75	57.58	1.95	277.29	0.00	12.81
89F00343	F	6	-7	32.1	15.9	105.3	137.2	4.9	997.4	0.0	80.2
89F00357	F	6	-7	54.3	55.7	187.1	269.1	7.3	16397.9	0.0	52.1
89F00362	F	6	-7	72.8	35.4	119.9	195.2	6.9	909.8	0.0	60.4
89F00363	F	6	-7	39.7	19.6	107.9	208.9	6.4	788.0	0.0	34.9
89F00379	F	6	-7	34.5	29.7	68.2	393.5	4.3	7824.5	0.0	55.0
Mean				46.68	31.26	117.68	240.78	5.96	5383.5	0.00	56.52
Std Dev				16.96	15.72	43.36	97.40	1.30	6849.2	0.00	16.32
SEM				7.58	7.03	19.39	43.56	0.58	3063.1	0.00	7.30

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00344	F	7	-7	46.6	24.2	107.6	153.6	5.4	1080.1	0.0	50.9
89F00353	F	7	-7	32.2	50.7	86.8	408.3	5.5	19399.1	0.0	76.6
89F00366	F	7	-7	27.2	7.9	86.9	58.7	7.7	384.4	0.0	92.1
89F00372	F	7	-7	47.5	22.9	90.8	104.5	12.6	538.7	0.0	50.7
89F00390	F	7	-7	17.4	17.2	80.8	181.9	4.9	731.6	0.0	33.2
Mean				34.18	24.58	90.58	181.40	7.22	4426.8	0.00	60.70
Std Dev				12.90	15.95	10.16	135.30	3.19	8373.8	0.00	23.40
SEM				5.77	7.13	4.55	60.51	1.43	3744.9	0.00	10.47
89F00346	F	8	-7	49.9	19.8	96.1	138.8	5.4	1003.1	0.0	48.9
89F00359	F	8	-7	45.7	28.8	176.0	121.5	9.5	719.6	0.0	34.5
89F00365	F	8	-7	38.5	18.5	155.0	83.9	6.7	1012.8	0.0	56.3
89F00392	F	8	-7	31.3	22.8	146.4	254.5	5.0	3040.1	0.0	62.0
89F00393	F	8	-7	NT	NT	NT	NT	NT	NT	NT	NT
Mean				41.35	22.48	143.38	149.68	6.65	1443.9	0.00	50.43
Std Dev				8.19	4.59	33.88	73.55	2.03	1072.8	0.00	11.89
SEM				4.09	2.29	16.94	36.77	1.02	536.4	0.00	5.95
89F00340	F	9	-7	24.1	18.9	91.3	172.1	4.3	652.2	0.0	51.5
89F00349	F	9	-7	33.4	15.3	76.6	89.0	6.6	331.4	0.0	87.3
89F00356	F	9	-7	43.6	62.3	73.0	420.5	5.7	14355.4	0.0	54.8
89F00367	F	9	-7	26.7	14.8	90.0	162.3	6.6	624.8	0.0	42.3
89F00384	F	9	-7	39.6	32.9	45.3	386.3	6.4	17977.5	0.0	52.7
Mean				33.48	28.84	75.24	246.04	5.92	6788.3	0.00	57.72
Std Dev				8.27	20.10	18.57	147.69	0.98	8657.2	0.00	17.21
SEM				3.70	8.99	8.30	66.05	0.44	3871.6	0.00	7.70

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00350	F	10	-7	49	0.0	6.1	4.2	2.1	111.1	22.3	1.2
89F00351	F	10	-7	40	0.0	5.9	4.3	2.7	115.5	25.2	1.0
89F00364	F	10	-7	32	0.1	6.4	4.7	2.8	108.9	21.8	1.0
89F00373	F	10	-7	66	0.1	5.9	4.3	2.8	120.6	23.9	1.1
89F00381	F	10	-7	65	0.1	6.0	4.6	3.3	118.5	18.7	1.2
Mean				50.4	0.06	6.06	4.42	2.74	114.92	22.38	1.10
Std Dev				15.0	0.05	0.21	0.22	0.43	4.91	2.46	0.10
SEM				6.7	0.02	0.09	0.10	0.19	2.19	1.10	0.04



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00338	F	1	-7	45	0.0	6.1	4.6	3.0	132.5	17.3	0.9
89F00339	F	1	-7	111	0.1	6.7	4.7	2.3	137.7	20.1	1.2
89F00352	F	1	-7	32	0.0	6.0	4.4	2.8	137.2	20.8	1.0
89F00369	F	1	-7	40	0.2	5.6	4.3	3.2	112.6	25.9	1.1
89F00377	F	1	-7	49	0.1	5.6	3.9	2.2	107.1	16.9	0.9
Mean				55.4	0.08	6.00	4.38	2.70	125.42	20.20	1.02
Std Dev				31.7	0.08	0.45	0.31	0.44	14.49	3.61	0.13
SEM				14.2	0.04	0.20	0.14	0.19	6.48	1.61	0.06
89F00337	F	2	-7	112	0.0	6.8	5.2	3.3	119.3	27.1	1.0
89F00358	F	2	-7	96	0.0	6.6	4.5	2.1	129.0	23.5	1.2
89F00371	F	2	-7	29	0.1	6.9	4.7	2.1	126.4	22.2	1.2
89F00389	F	2	-7	58	0.1	6.3	4.8	3.1	120.3	22.1	1.0
89F00391	F	2	-7	53	0.2	5.8	4.0	2.2	177.0	20.8	1.0
Mean				69.6	0.08	6.48	4.64	2.56	134.40	23.14	1.08
Std Dev				33.7	0.08	0.44	0.44	0.59	24.16	2.41	0.11
SEM				15.1	0.04	0.20	0.20	0.26	10.80	1.08	0.05
89F00348	F	3	-7	48	0.1	5.9	4.3	2.6	122.7	21.9	1.1
89F00355	F	3	-7	84	0.0	6.4	4.4	2.2	120.9	20.6	0.8
89F00368	F	3	-7	147	0.0	6.8	5.2	3.3	132.8	23.8	1.4
89F00370	F	3	-7	28	0.0	5.9	4.3	2.6	129.3	19.7	0.9
89F00383	F	3	-7	39	0.1	5.9	4.6	3.4	105.8	15.6	0.9
Mean				69.2	0.04	6.18	4.56	2.82	122.30	20.32	1.02
Std Dev				48.3	0.05	0.41	0.38	0.51	10.41	3.06	0.24
SEM				21.6	0.02	0.18	0.17	0.23	4.66	1.37	0.11

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00345	F	4	-7	36	0.0	6.6	4.6	2.3	118.0	19.3	1.0
89F00354	F	4	-7	54	0.1	6.0	5.0	5.0	136.8	17.6	0.7
89F00374	F	4	-7	48	0.0	6.7	4.7	2.3	129.9	22.2	1.7
89F00380	F	4	-7	64	0.0	5.8	4.5	3.4	108.1	19.6	1.2
89F00387	F	4	-7	53	0.0	6.6	4.6	2.2	134.6	25.9	1.5
Mean				51.0	0.02	6.34	4.68	3.04	125.48	20.92	1.22
Std Dev				10.2	0.04	0.41	0.19	1.20	12.13	3.23	0.40
SEM				4.6	0.02	0.18	0.09	0.54	5.43	1.45	0.18
89F00341	F	5	-7	96	0.0	6.3	4.8	3.2	118.7	22.3	1.0
89F00347	F	5	-7	47	0.2	6.4	4.6	2.5	115.7	16.6	1.5
89F00360	F	5	-7	42	0.0	6.0	4.8	4.1	114.3	18.6	0.7
89F00375	F	5	-7	70	0.0	5.3	3.9	2.8	135.0	18.9	1.1
89F00394	F	5	-7	NT	NT	NT	NT	NT	NT	NT	NT
Mean				63.8	0.05	6.00	4.53	3.15	120.93	19.10	1.03
Std Dev				24.7	0.10	0.50	0.43	0.70	9.56	2.37	0.25
SEM				12.4	0.05	0.25	0.21	0.35	4.78	1.18	0.13
89F00343	F	6	-7	70	0.0	6.2	4.3	2.2	120.1	19.9	0.9
89F00357	F	6	-7	51	0.0	5.9	4.6	3.6	131.2	14.7	0.9
89F00362	F	6	-7	59	0.2	6.2	4.9	3.8	117.0	21.0	1.2
89F00363	F	6	-7	102	0.1	6.4	5.0	3.6	108.1	19.7	0.9
89F00379	F	6	-7	43	0.0	6.0	4.6	3.2	89.5	18.5	1.0
Mean				65.0	0.06	6.14	4.68	3.28	113.18	18.76	0.98
Std Dev				23.0	0.09	0.19	0.28	0.64	15.60	2.44	0.13
SEM				10.3	0.04	0.09	0.12	0.29	6.98	1.09	0.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00344	F	7	-7	49	0.1	6.6	5.0	3.2	117.6	19.3	1.1
89F00353	F	7	-7	61	0.1	6.3	4.3	2.2	125.1	26.1	1.1
89F00366	F	7	-7	15	0.1	6.3	4.6	2.7	133.8	20.2	1.2
89F00372	F	7	-7	64	0.0	6.0	4.6	3.4	130.6	18.0	0.9
89F00390	F	7	-7	53	0.1	6.0	4.9	4.5	130.1	19.5	1.0
Mean				48.4	0.08	6.24	4.68	3.20	127.44	20.62	1.06
Std Dev				19.6	0.04	0.25	0.28	0.86	6.32	3.16	0.11
SEM				8.8	0.02	0.11	0.12	0.39	2.83	1.42	0.05
89F00346	F	8	-7	31	0.2	6.4	4.4	2.2	109.4	23.3	1.1
89F00359	F	8	-7	81	0.0	6.2	4.7	3.1	127.6	18.6	1.2
89F00365	F	8	-7	28	0.1	6.3	4.1	1.9	120.9	18.1	1.0
89F00392	F	8	-7	45	0.1	5.9	4.6	3.8	110.7	27.1	1.0
89F00393	F	8	-7	NT	NT	NT	NT	NT	NT	NT	NT
Mean				46.3	0.10	6.20	4.45	2.75	117.15	21.78	1.08
Std Dev				24.3	0.08	0.22	0.26	0.87	8.66	4.25	0.10
SEM				12.2	0.04	0.11	0.13	0.43	4.33	2.13	0.05
89F00340	F	9	-7	39	0.1	6.1	4.6	3.1	142.0	25.8	1.4
89F00349	F	9	-7	59	0.1	5.9	4.1	2.3	117.5	20.9	1.0
89F00356	F	9	-7	42	0.0	6.1	4.8	3.6	107.2	17.6	0.9
89F00367	F	9	-7	35	0.1	6.3	4.6	2.7	118.1	24.0	1.1
89F00384	F	9	-7	57	0.1	6.0	4.5	3.0	115.3	18.4	1.1
Mean				46.4	0.08	6.08	4.52	2.94	120.02	21.34	1.10
Std Dev				10.9	0.04	0.15	0.26	0.48	13.04	3.53	0.19
SEM				4.9	0.02	0.07	0.12	0.22	5.83	1.58	0.08

## Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00350	F	10	-7	13.6	4.5	143.0	110	4.6	169.0	1.99
89F00351	F	10	-7	12.8	4.0	146.6	114	3.9	117.7	1.83
89F00364	F	10	-7	15.1	4.4	146.8	120	5.3	225.1	2.16
89F00373	F	10	-7	16.0	3.9	146.7	117	4.4	158.7	1.79
89F00381	F	10	-7	14.6	3.1	146.5	112	4.1	158.9	1.98
Mean				14.42	3.98	145.92	114.6	4.46	165.88	1.950
Std Dev				1.25	0.55	1.64	4.0	0.54	38.53	0.147
SEM				0.56	0.25	0.73	1.8	0.24	17.23	0.066

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00338	F	1	-7	14.5	4.5	148.8	114	4.1	241.7	2.04
89F00339	F	1	-7	14.6	4.8	150.8	110	4.2	188.8	2.17
89F00352	F	1	-7	11.4	4.1	146.4	118	5.0	NT	2.40
89F00369	F	1	-7	15.6	4.7	146.0	122	4.8	181.4	1.81
89F00377	F	1	-7	13.4	3.2	147.9	113	3.8	114.2	1.67
Mean				13.90	4.26	147.98	115.4	4.38	181.53	2.018
Std Dev				1.60	0.65	1.94	4.7	0.50	52.30	0.289
SEM				0.72	0.29	0.87	2.1	0.22	26.15	0.129
89F00337	F	2	-7	13.4	5.0	146.4	104	4.3	221.8	2.13
89F00358	F	2	-7	14.7	4.6	152.9	113	4.6	225.5	2.09
89F00371	F	2	-7	16.0	3.6	148.8	121	3.8	206.9	1.75
89F00389	F	2	-7	15.5	3.8	145.9	114	4.6	157.8	2.02
89F00391	F	2	-7	13.2	3.8	144.0	118	3.5	129.4	1.67
Mean				14.56	4.16	147.60	114.0	4.16	188.28	1.932
Std Dev				1.24	0.61	3.42	6.4	0.49	42.58	0.208
SEM				0.56	0.27	1.53	2.9	0.22	19.04	0.093
89F00348	F	3	-7	13.2	5.7	142.4	109	4.6	120.4	2.03
89F00355	F	3	-7	NT	2.9	135.7	100	52.7	395.2	NT
89F00368	F	3	-7	15.9	3.8	147.1	117	4.2	127.1	1.89
89F00370	F	3	-7	14.2	4.3	146.0	118	4.4	214.4	1.86
89F00383	F	3	-7	14.8	3.1	148.1	111	4.3	163.1	1.80
Mean				14.53	3.96	143.86	111.0	14.04	204.04	1.895
Std Dev				1.13	1.12	5.04	7.2	21.61	113.18	0.097
SEM				0.56	0.50	2.26	3.2	9.67	50.62	0.049

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00345	F	4	-7	13.4	3.6	150.2	120	4.0	165.8	1.95
89F00354	F	4	-7	13.7	3.5	148.2	112	4.7	96.3	1.75
89F00374	F	4	-7	16.1	5.3	150.0	119	5.6	154.7	1.83
89F00380	F	4	-7	13.5	3.7	149.8	114	3.5	127.9	2.19
89F00387	F	4	-7	12.6	3.5	151.1	116	3.8	327.1	2.17
Mean				13.86	3.92	149.86	116.2	4.32	174.36	1.978
Std Dev				1.32	0.78	1.05	3.3	0.84	89.50	0.198
SEM				0.59	0.35	0.47	1.5	0.38	40.03	0.088
89F00341	F	5	-7	13.5	4.0	145.8	111	4.6	182.6	1.69
89F00347	F	5	-7	13.6	4.0	147.5	117	4.3	122.6	2.20
89F00360	F	5	-7	13.3	4.8	147.7	116	5.2	235.7	2.24
89F00375	F	5	-7	14.9	4.9	146.5	119	4.6	152.8	1.57
89F00394	F	5	-7	NT	NT	NT	NT	NT	NT	NT
Mean				13.83	4.43	146.88	115.8	4.68	173.43	1.925
Std Dev				0.73	0.49	0.89	3.4	0.38	48.20	0.345
SEM				0.36	0.25	0.44	1.7	0.19	24.10	0.172
89F00343	F	6	-7	14.6	4.8	144.5	108	4.7	208.1	1.85
89F00357	F	6	-7	13.3	4.1	152.0	118	4.5	76.8	2.07
89F00362	F	6	-7	14.3	4.1	148.2	119	5.1	190.6	2.07
89F00363	F	6	-7	16.1	4.6	147.1	117	4.7	193.6	1.68
89F00379	F	6	-7	14.1	3.1	148.9	115	4.3	105.0	1.78
Mean				14.48	4.14	148.14	115.4	4.66	154.82	1.890
Std Dev				1.03	0.66	2.73	4.4	0.30	59.57	0.175
SEM				0.46	0.29	1.22	2.0	0.13	26.64	0.078

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00344	F	7	-7	13.9	4.3	150.8	117	4.3	244.5	1.88
89F00353	F	7	-7	13.8	3.8	153.6	117	4.6	129.0	1.86
89F00366	F	7	-7	15.4	4.5	147.1	118	4.0	207.6	1.98
89F00372	F	7	-7	14.5	6.0	146.5	117	4.4	180.1	1.65
89F00390	F	7	-7	14.9	3.3	145.9	114	4.5	173.2	1.98
Mean				14.50	4.38	148.78	116.6	4.36	186.88	1.870
Std Dev				0.67	1.02	3.30	1.5	0.23	42.82	0.135
SEM				0.30	0.46	1.48	0.7	0.10	19.15	0.060
89F00346	F	8	-7	13.3	3.8	144.7	113	4.3	178.6	1.81
89F00359	F	8	-7	13.9	5.0	149.4	115	4.2	241.8	2.26
89F00365	F	8	-7	15.6	3.9	144.3	116	4.8	193.7	1.66
89F00392	F	8	-7	15.5	3.8	146.5	113	4.7	120.5	1.92
89F00393	F	8	-7	NT	NT	NT	NT	NT	NT	NT
Mean				14.58	4.13	146.23	114.3	4.50	183.65	1.913
Std Dev				1.15	0.59	2.32	1.5	0.29	49.99	0.255
SEM				0.58	0.29	1.16	0.8	0.15	24.99	0.128
89F00340	F	9	-7	13.0	3.5	147.4	115	4.9	235.4	1.76
89F00349	F	9	-7	12.6	3.7	137.8	108	4.5	144.7	1.76
89F00356	F	9	-7	10.5	3.7	147.6	114	5.1	81.6	2.33
89F00367	F	9	-7	15.0	5.6	147.2	118	4.8	178.2	1.82
89F00384	F	9	-7	14.6	2.8	147.8	112	3.9	92.4	1.83
Mean				13.14	3.86	145.56	113.4	4.64	146.46	1.900
Std Dev				1.79	1.04	4.34	3.7	0.47	63.34	0.243
SEM				0.80	0.47	1.94	1.7	0.21	28.33	0.108

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00350	F	10	0	28.4	16.6	82.5	201.0	4.9	1055.1	0.0	38.3
89F00351	F	10	0	35.4	10.8	84.3	36.9	6.0	261.4	0.0	45.7
89F00364	F	10	0	19.7	8.8	55.6	30.7	6.8	585.8	0.0	43.1
89F00373	F	10	0	28.2	10.4	81.1	89.6	5.2	938.1	0.0	43.7
89F00381	F	10	0	29.6	6.9	73.2	69.6	4.5	1037.3	0.0	30.0
Mean				28.26	10.70	75.34	85.56	5.48	775.5	0.00	40.16
Std Dev				5.61	3.64	11.82	68.87	0.92	344.0	0.00	6.30
SEM				2.51	1.63	5.29	30.80	0.41	153.9	0.00	2.82



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00338	F	1	0	31.2	13.6	50.0	130.5	3.2	627.8	0.0	42.2
89F00339	F	1	0	48.4	20.5	193.6	190.6	5.3	793.0	0.0	82.1
89F00352	F	1	0	20.7	18.2	67.6	285.1	5.5	1710.6	0.0	68.9
89F00369	F	1	0	17.9	7.8	64.5	61.3	6.3	379.2	0.0	65.0
89F00377	F	1	0	21.2	7.8	143.7	42.6	5.7	498.3	0.0	62.9
Mean				27.88	13.58	103.88	142.02	5.20	801.8	0.00	64.22
Std Dev				12.53	5.83	62.06	99.20	1.18	530.8	0.00	14.39
SEM				5.60	2.61	27.75	44.36	0.53	237.4	0.00	6.44
89F00337	F	2	0	38.6	49.3	164.5	190.3	5.0	6938.7	0.0	70.4
89F00358	F	2	0	17.6	6.2	36.6	36.8	3.1	199.7	0.0	34.2
89F00371	F	2	0	10.4	11.4	43.0	52.1	6.2	547.7	0.0	49.9
89F00389	F	2	0	23.0	11.2	52.4	79.2	4.5	6003.5	0.0	56.4
89F00391	F	2	0	22.1	6.9	74.2	38.0	6.4	791.9	0.0	39.8
Mean				22.34	17.00	74.14	79.28	5.04	2896.3	0.00	50.14
Std Dev				10.37	18.21	52.48	64.37	1.35	3286.8	0.00	14.24
SEM				4.64	8.15	23.47	28.79	0.60	1469.9	0.00	6.37
89F00348	F	3	0	35.6	8.2	88.5	64.1	5.3	905.8	0.0	58.1
89F00355	F	3	0	24.5	10.5	89.0	26.6	6.8	392.5	0.0	41.0
89F00368	F	3	0	22.3	9.3	67.2	47.0	7.5	483.0	0.0	48.6
89F00370	F	3	0	40.1	11.4	19.4	79.0	7.0	600.4	0.0	50.4
89F00383	F	3	0	29.8	7.0	73.6	43.6	6.4	591.3	0.0	59.9
Mean				30.46	9.28	67.54	52.06	6.60	594.6	0.00	52.20
Std Dev				7.45	1.76	28.52	20.10	0.83	193.7	0.00	6.66
SEM				3.33	0.79	12.76	8.99	0.37	86.6	0.00	2.98

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00345	F	4	0	29.1	9.1	92.4	60.3	5.1	754.4	0.0	39.8
89F00354	F	4	0	26.9	10.1	122.9	48.5	4.9	523.7	0.0	44.9
89F00374	F	4	0	33.4	15.1	82.0	42.7	6.4	959.0	0.0	90.3
89F00380	F	4	0	18.4	9.3	114.9	131.3	6.1	1202.3	0.0	65.9
89F00387	F	4	0	21.9	9.3	54.3	158.9	6.6	878.2	0.0	52.4
Mean				25.94	10.58	93.30	88.34	5.82	863.5	0.00	58.66
Std Dev				5.91	2.56	27.35	53.11	0.77	250.7	0.00	20.23
SEM				2.64	1.14	12.23	23.75	0.35	112.1	0.00	9.05
89F00341	F	5	0	26.2	21.7	95.4	310.1	4.2	1515.0	0.0	59.2
89F00347	F	5	0	37.4	13.8	72.0	57.5	7.0	549.7	0.0	62.7
89F00360	F	5	0	12.7	7.3	115.3	60.1	4.7	774.3	0.0	33.2
89F00375	F	5	0	39.3	56.1	87.7	109.3	4.9	6078.2	0.0	68.2
89F00394	F	5	0	25.7	13.6	89.6	49.6	1.7	3442.0	0.0	47.1
Mean				28.26	22.50	92.00	117.32	4.50	2471.8	0.00	54.08
Std Dev				10.70	19.46	15.64	110.30	1.90	2315.1	0.00	14.01
SEM				4.79	8.70	7.00	49.33	0.85	1035.3	0.00	6.26
89F00343	F	6	0	25.2	10.1	93.0	60.6	5.3	531.8	0.0	64.2
89F00357	F	6	0	24.3	11.2	118.8	59.0	4.1	1140.3	0.0	43.4
89F00362	F	6	0	29.1	11.8	80.2	57.9	2.5	557.9	0.0	23.9
89F00363	F	6	0	21.7	17.0	78.2	240.4	5.1	838.7	0.0	27.1
89F00379	F	6	0	51.9	9.1	52.9	31.7	4.1	1132.8	0.0	43.1
Mean				30.44	11.84	84.62	89.92	4.22	840.3	0.00	40.34
Std Dev				12.29	3.06	24.01	84.96	1.11	296.0	0.00	16.06
SEM				5.49	1.37	10.74	38.00	0.50	132.4	0.00	7.18

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00344	F	7	0	36.3	11.2	94.1	51.7	4.0	731.9	0.0	37.6
89F00353	F	7	0	18.2	8.4	101.7	37.7	5.9	390.1	0.0	43.2
89F00366	F	7	0	18.2	9.0	87.5	37.5	7.7	643.6	0.0	98.2
89F00372	F	7	0	48.2	41.8	69.4	256.2	7.9	15785.2	0.0	60.8
89F00390	F	7	0	21.7	11.8	53.4	75.1	4.0	3156.3	0.0	61.6
Mean				28.52	16.44	81.22	91.64	5.90	4141.4	0.00	60.28
Std Dev				13.30	14.25	19.61	93.26	1.90	6604.5	0.00	23.70
SEM				5.95	6.37	8.77	41.71	0.85	2953.6	0.00	10.60
89F00346	F	8	0	44.9	12.6	77.6	68.3	5.2	852.2	0.0	40.5
89F00359	F	8	0	18.4	7.6	126.5	60.9	3.2	501.5	0.0	49.0
89F00365	F	8	0	21.2	12.2	91.1	31.0	7.2	844.3	0.0	45.3
89F00392	F	8	0	38.5	13.4	83.8	72.5	8.3	2966.5	0.0	58.3
89F00393	F	8	0	18.9	6.9	81.0	75.4	3.5	2575.7	0.0	64.3
Mean				28.38	10.54	92.00	61.62	5.48	1548.1	0.00	51.48
Std Dev				12.41	3.04	19.92	17.97	2.24	1133.9	0.00	9.69
SEM				5.55	1.36	8.91	8.03	1.00	507.1	0.00	4.33
89F00340	F	9	0	36.3	52.9	60.8	195.2	4.4	965.4	0.0	43.3
89F00349	F	9	0	43.1	14.8	48.7	54.4	5.9	1310.4	0.0	64.2
89F00356	F	9	0	13.1	9.6	52.8	73.9	5.6	637.1	0.0	28.3
89F00367	F	9	0	15.3	10.2	71.8	85.8	6.7	363.1	0.0	39.9
89F00384	F	9	0	25.7	8.9	44.5	39.0	5.4	479.5	0.0	40.7
Mean				26.70	19.28	55.72	89.66	5.60	751.1	0.00	43.28
Std Dev				13.01	18.94	10.82	61.67	0.83	386.0	0.00	13.04
SEM				5.82	8.47	4.84	27.58	0.37	172.6	0.00	5.83

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00350	F	10	0	46	0.0	6.6	4.7	2.6	116.8	22.4	1.3
89F00351	F	10	0	53	0.0	5.9	4.4	3.0	111.2	19.7	1.1
89F00364	F	10	0	30	0.1	6.3	4.3	2.1	120.8	16.8	1.1
89F00373	F	10	0	102	0.0	6.3	4.3	2.2	117.4	14.8	1.3
89F00381	F	10	0	38	0.1	6.0	4.8	4.3	105.3	16.5	1.4
Mean				53.8	0.04	6.22	4.50	2.84	114.30	18.04	1.24
Std Dev				28.3	0.05	0.28	0.23	0.89	6.10	3.01	0.13
SEM				12.7	0.02	0.12	0.10	0.40	2.73	1.34	0.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00338	F	1	0	22	0.0	5.5	3.4	1.6	108.8	14.9	0.7
89F00339	F	1	0	79	0.1	6.6	4.4	2.0	134.7	16.3	1.3
89F00352	F	1	0	63	0.1	5.9	4.5	3.2	113.1	18.0	1.1
89F00369	F	1	0	54	0.0	5.9	3.8	1.9	136.5	19.2	1.0
89F00377	F	1	0	22	0.1	5.5	3.6	1.9	95.0	16.4	1.1
Mean				48.0	0.06	5.88	3.94	2.12	117.62	16.96	1.04
Std Dev				25.4	0.05	0.45	0.49	0.62	17.73	1.67	0.22
SEM				11.3	0.02	0.20	0.22	0.28	7.93	0.74	0.10
89F00337	F	2	0	35	0.1	6.6	4.8	2.7	124.3	18.8	0.8
89F00358	F	2	0	50	0.1	6.3	4.7	2.9	106.3	18.5	1.0
89F00371	F	2	0	42	0.1	6.3	4.0	1.7	125.0	15.7	1.2
89F00389	F	2	0	61	0.0	6.4	4.9	3.1	130.3	17.8	0.9
89F00391	F	2	0	49	0.0	6.1	4.6	2.9	114.4	18.0	0.9
Mean				47.4	0.06	6.34	4.60	2.66	120.06	17.76	0.96
Std Dev				9.7	0.05	0.18	0.35	0.55	9.60	1.22	0.15
SEM				4.3	0.02	0.08	0.16	0.25	4.29	0.54	0.07
89F00348	F	3	0	62	0.1	6.2	4.5	2.7	133.1	18.0	0.9
89F00355	F	3	0	96	0.2	6.4	4.7	2.8	122.0	18.9	0.9
89F00368	F	3	0	124	0.0	6.1	4.8	3.5	125.2	17.7	1.3
89F00370	F	3	0	78	0.1	6.0	4.2	2.3	118.2	16.0	0.9
89F00383	F	3	0	72	0.1	5.8	4.0	2.1	18.9	4.3	0.1
Mean				86.4	0.10	6.10	4.44	2.68	103.48	14.98	0.82
Std Dev				24.4	0.07	0.22	0.34	0.54	47.60	6.06	0.44
SEM				10.9	0.03	0.10	0.15	0.24	21.29	2.71	0.20

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00345	F	4	0	68	0.0	6.8	4.7	2.2	124.1	17.1	1.1
89F00354	F	4	0	128	0.1	6.3	4.9	3.4	140.8	15.4	0.9
89F00374	F	4	0	300	0.1	6.9	4.4	1.8	128.6	15.8	3.1
89F00380	F	4	0	86	0.1	6.1	4.9	3.9	123.9	20.4	1.3
89F00387	F	4	0	144	0.1	4.9	3.3	2.0	90.4	18.0	1.3
Mean				145.2	0.08	6.20	4.44	2.66	121.56	17.34	1.54
Std Dev				91.8	0.04	0.80	0.67	0.93	18.73	2.00	0.89
SEM				41.1	0.02	0.36	0.30	0.42	8.37	0.89	0.40
89F00341	F	5	0	111	1.9	5.7	4.1	2.7	406.8	22.9	1.2
89F00347	F	5	0	56	0.0	6.8	4.5	1.9	131.9	16.7	1.1
89F00360	F	5	0	65	0.0	5.9	4.4	2.8	134.2	14.6	0.8
89F00375	F	5	0	52	0.1	6.0	4.2	2.4	136.8	17.3	1.1
89F00394	F	5	0	148	0.0	6.3	4.5	2.4	120.1	17.8	1.3
Mean				86.4	0.40	6.14	4.34	2.44	185.96	17.86	1.10
Std Dev				41.7	0.84	0.43	0.18	0.35	123.62	3.07	0.19
SEM				18.7	0.38	0.19	0.08	0.16	55.28	1.37	0.08
89F00343	F	6	0	70	0.0	6.6	4.5	2.2	136.4	18.6	0.9
89F00357	F	6	0	43	0.1	5.9	4.4	3.0	104.8	19.2	0.9
89F00362	F	6	0	73	0.1	6.0	4.4	2.7	101.8	16.8	0.9
89F00363	F	6	0	96	0.1	5.8	4.6	3.5	142.2	16.6	1.8
89F00379	F	6	0	63	0.1	6.2	4.6	2.9	120.0	15.3	1.1
Mean				69.0	0.08	6.10	4.50	2.86	121.04	17.30	1.12
Std Dev				19.1	0.04	0.32	0.10	0.47	18.16	1.58	0.39
SEM				8.5	0.02	0.14	0.04	0.21	8.12	0.71	0.17

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00344	F	7	0	112	0.1	6.6	4.9	2.8	121.5	23.6	1.0
89F00353	F	7	0	46	0.1	5.9	4.4	2.9	130.6	20.8	1.1
89F00366	F	7	0	37	0.1	6.5	4.9	3.3	103.5	15.4	1.2
89F00372	F	7	0	83	0.1	6.1	4.2	2.1	147.2	20.2	0.8
89F00390	F	7	0	56	0.0	6.4	4.6	2.5	116.5	15.0	0.9
Mean				66.8	0.08	6.30	4.60	2.72	123.86	19.00	1.00
Std Dev				30.6	0.04	0.29	0.31	0.45	16.31	3.70	0.16
SEM				13.7	0.02	0.13	0.14	0.20	7.30	1.66	0.07
89F00346	F	8	0	19	0.0	6.4	4.8	3.0	119.7	18.3	1.1
89F00359	F	8	0	78	0.0	6.0	4.3	2.6	111.9	16.7	1.0
89F00365	F	8	0	45	0.0	6.3	4.4	2.3	124.7	16.1	1.0
89F00392	F	8	0	61	0.0	6.2	4.7	3.1	131.2	15.6	0.9
89F00393	F	8	0	119	0.1	6.1	4.3	2.5	129.0	22.3	0.9
Mean				64.4	0.02	6.20	4.50	2.70	123.30	17.80	0.98
Std Dev				37.5	0.04	0.16	0.23	0.34	7.74	2.71	0.08
SEM				16.8	0.02	0.07	0.10	0.15	3.46	1.21	0.04
89F00340	F	9	0	27	0.0	6.2	4.3	2.3	118.5	23.0	1.1
89F00349	F	9	0	87	0.1	6.2	4.1	2.0	135.4	15.6	0.8
89F00356	F	9	0	118	0.0	5.9	4.5	3.2	80.2	16.5	0.9
89F00367	F	9	0	35	0.1	5.8	4.5	3.4	117.6	17.2	1.1
89F00384	F	9	0	44	0.0	6.2	4.3	2.4	115.5	15.7	1.1
Mean				62.2	0.04	6.06	4.34	2.66	113.44	17.60	1.00
Std Dev				38.9	0.05	0.19	0.17	0.61	20.21	3.09	0.14
SEM				17.4	0.02	0.09	0.07	0.27	9.04	1.38	0.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00350	F	10	0	15.1	4.3	151.5	125	4.3	222.5	2.00
89F00351	F	10	0	14.7	3.6	149.0	111	3.8	531.9	1.86
89F00364	F	10	0	14.5	3.1	147.5	117	4.1	361.8	2.01
89F00373	F	10	0	14.3	4.3	147.3	111	4.3	545.3	2.16
89F00381	F	10	0	13.1	2.3	148.3	110	3.9	432.6	2.01
Mean				14.34	3.52	148.72	114.8	4.08	418.82	2.008
Std Dev				0.75	0.85	1.69	6.3	0.23	133.01	0.106
SEM				0.34	0.38	0.76	2.8	0.10	59.48	0.047



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00338	F	1	0	12.8	4.2	147.6	116	3.9	103.7	1.72
89F00339	F	1	0	14.7	4.3	148.0	117	3.9	292.8	1.95
89F00352	F	1	0	14.7	3.5	149.6	116	4.6	133.8	1.71
89F00369	F	1	0	14.2	4.0	145.9	112	4.2	578.0	1.73
89F00377	F	1	0	13.9	3.0	146.7	NT	3.8	221.2	1.74
Mean				14.06	3.80	147.56	115.3	4.08	265.90	1.770
Std Dev				0.78	0.54	1.40	2.2	0.33	189.66	0.101
SEM				0.35	0.24	0.63	1.1	0.15	84.82	0.045
89F00337	F	2	0	14.8	3.5	147.8	118	3.8	445.4	1.66
89F00358	F	2	0	14.8	2.8	146.6	114	3.8	432.4	1.59
89F00371	F	2	0	14.6	2.9	146.8	109	3.6	330.4	1.66
89F00389	F	2	0	13.5	2.0	147.8	112	3.7	505.2	1.84
89F00391	F	2	0	15.0	3.0	146.8	112	4.2	420.5	1.85
Mean				14.54	2.84	147.16	113.0	3.82	426.78	1.720
Std Dev				0.60	0.54	0.59	3.3	0.23	62.96	0.118
SEM				0.27	0.24	0.26	1.5	0.10	28.16	0.053
89F00348	F	3	0	15.3	4.4	148.6	120	4.0	400.8	1.43
89F00355	F	3	0	15.9	2.7	148.6	113	4.6	304.7	1.75
89F00368	F	3	0	14.8	4.3	147.4	108	4.3	123.5	2.03
89F00370	F	3	0	14.2	3.9	146.7	111	4.3	536.3	1.95
89F00383	F	3	0	13.7	4.2	145.6	109	4.3	406.8	1.96
Mean				14.78	3.90	147.38	112.2	4.30	354.42	1.824
Std Dev				0.87	0.70	1.29	4.8	0.21	153.11	0.244
SEM				0.39	0.31	0.57	2.1	0.09	68.47	0.109

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00345	F	4	0	14.8	4.5	151.1	118	4.5	480.6	1.93
89F00354	F	4	0	14.7	3.8	149.2	113	4.4	243.5	1.89
89F00374	F	4	0	14.1	4.0	147.5	107	3.8	490.1	1.98
89F00380	F	4	0	13.6	3.3	148.6	109	4.2	156.8	2.11
89F00387	F	4	0	12.3	2.8	128.9	92	2.7	2778.4	1.79
Mean				13.90	3.68	145.06	107.8	3.92	829.88	1.940
Std Dev				1.02	0.65	9.13	9.8	0.73	1098.98	0.118
SEM				0.45	0.29	4.08	4.4	0.33	491.48	0.053
89F00341	F	5	0	14.5	5.8	145.1	113	4.8	114.2	2.53
89F00347	F	5	0	15.0	4.5	149.2	117	4.2	560.4	1.93
89F00360	F	5	0	14.9	3.8	146.4	111	4.1	397.7	1.73
89F00375	F	5	0	13.9	5.3	147.2	112	4.3	538.2	1.87
89F00394	F	5	0	12.9	2.9	149.0	110	3.6	491.3	1.77
Mean				14.24	4.46	147.38	112.6	4.20	420.36	1.966
Std Dev				0.86	1.16	1.74	2.7	0.43	182.19	0.325
SEM				0.39	0.52	0.78	1.2	0.19	81.48	0.145
89F00343	F	6	0	15.7	5.1	149.6	118	4.3	497.8	1.72
89F00357	F	6	0	14.5	3.2	146.4	111	3.8	380.3	1.85
89F00362	F	6	0	15.1	3.1	148.8	111	4.2	513.7	1.76
89F00363	F	6	0	15.4	4.7	144.7	112	4.7	230.3	2.17
89F00379	F	6	0	14.1	2.9	149.4	110	4.1	529.7	1.89
Mean				14.96	3.80	147.78	112.4	4.22	430.36	1.878
Std Dev				0.65	1.02	2.14	3.2	0.33	126.38	0.177
SEM				0.29	0.46	0.96	1.4	0.15	56.52	0.079

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00344	F	7	0	16.0	3.2	148.9	119	4.2	417.5	1.71
89F00353	F	7	0	14.1	3.0	148.6	113	4.0	384.2	1.66
89F00366	F	7	0	14.6	4.2	147.2	116	3.9	486.4	2.33
89F00372	F	7	0	13.4	4.2	148.1	113	4.1	73.6	1.77
89F00390	F	7	0	13.0	2.1	148.6	110	3.3	957.8	1.88
Mean				14.22	3.34	148.28	114.2	3.90	463.90	1.870
Std Dev				1.17	0.89	0.67	3.4	0.35	318.31	0.270
SEM				0.52	0.40	0.30	1.5	0.16	142.35	0.121
89F00346	F	8	0	15.3	4.0	147.8	120	4.0	587.5	2.06
89F00359	F	8	0	15.1	3.7	148.4	111	4.2	390.3	2.11
89F00365	F	8	0	14.6	5.0	145.8	113	4.2	347.5	1.94
89F00392	F	8	0	13.7	1.8	149.9	110	3.7	513.9	1.85
89F00393	F	8	0	13.9	3.6	151.3	113	4.4	560.9	1.97
Mean				14.52	3.62	148.64	113.4	4.10	480.02	1.986
Std Dev				0.71	1.16	2.09	3.9	0.26	105.89	0.102
SEM				0.32	0.52	0.94	1.7	0.12	47.36	0.046
89F00340	F	9	0	13.9	3.1	150.1	122	4.3	564.6	1.57
89F00349	F	9	0	15.1	3.7	149.8	117	3.8	706.9	1.62
89F00356	F	9	0	14.7	2.9	149.0	113	3.8	339.2	1.85
89F00367	F	9	0	14.1	4.5	146.6	117	4.1	174.3	1.89
89F00384	F	9	0	14.2	3.2	147.4	109	3.8	324.2	1.71
Mean				14.40	3.48	148.58	115.6	3.96	421.84	1.728
Std Dev				0.49	0.64	1.52	4.9	0.23	211.71	0.140
SEM				0.22	0.29	0.68	2.2	0.10	94.68	0.062

## Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00350	F	10	1	18.5	14.4	76.0	207.6	5.5	1381.5	0.0	30.4
89F00351	F	10	1	26.0	10.5	68.2	82.5	4.6	228.9	0.0	42.1
89F00364	F	10	1	25.2	10.5	43.3	40.7	5.4	440.7	0.0	42.0
89F00373	F	10	1	29.5	8.2	74.5	64.1	4.1	1136.4	0.0	44.6
89F00381	F	10	1	25.3	6.6	65.7	30.0	6.1	657.0	0.0	30.8
Mean				24.90	10.04	65.54	84.98	5.14	768.9	0.00	37.98
Std Dev				3.99	2.94	13.15	71.52	0.79	480.2	0.00	6.82
SEM				1.78	1.32	5.88	31.99	0.35	214.7	0.00	3.05

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00338	F	1	1	25.7	18.7	72.2	87.5	3.3	636.4	0.0	36.8
89F00339	F	1	1	49.8	56.5	170.6	81.6	4.8	4908.6	0.0	73.4
89F00352	F	1	1	19.5	12.8	81.5	108.8	4.6	1075.2	0.0	50.4
89F00369	F	1	1	22.1	12.3	92.7	122.2	5.1	534.8	0.0	63.3
89F00377	F	1	1	21.4	14.2	169.9	61.2	8.7	368.4	0.0	51.6
Mean				27.70	22.90	117.38	92.26	5.30	1504.7	0.00	55.10
Std Dev				12.56	18.95	48.81	23.83	2.02	1920.7	0.00	13.89
SEM				5.62	8.48	21.83	10.66	0.90	859.0	0.00	6.21
89F00337	F	2	1	41.7	33.8	213.9	95.2	4.7	2261.9	0.0	66.2
89F00358	F	2	1	20.5	17.4	44.9	30.2	3.2	347.4	0.0	39.4
89F00371	F	2	1	11.7	16.9	57.1	76.8	4.8	703.0	0.0	44.9
89F00389	F	2	1	22.6	22.2	59.2	43.5	8.6	2578.4	0.0	54.3
89F00391	F	2	1	20.0	18.7	88.9	46.3	4.7	534.2	0.0	36.0
Mean				23.30	21.80	92.80	58.40	5.20	1285.0	0.00	48.16
Std Dev				11.09	7.02	69.60	26.72	2.01	1049.9	0.00	12.23
SEM				4.96	3.14	31.13	11.95	0.90	469.5	0.00	5.47
89F00348	F	3	1	42.7	54.9	116.0	218.1	5.2	1360.3	0.0	52.7
89F00355	F	3	1	24.9	23.7	82.9	95.5	0.4	306.6	0.0	40.4
89F00368	F	3	1	32.6	22.2	67.9	56.7	6.1	437.3	0.0	41.5
89F00370	F	3	1	38.2	19.8	26.6	196.4	5.1	959.2	0.0	43.4
89F00383	F	3	1	36.4	18.5	105.3	31.7	8.9	399.5	0.0	53.1
Mean				34.96	27.82	79.74	119.68	5.14	692.6	0.00	46.22
Std Dev				6.69	15.27	35.15	83.46	3.06	452.0	0.00	6.19
SEM				2.99	6.83	15.72	37.33	1.37	202.1	0.00	2.77

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GST	CK	BILI	CHOL
89F00345	F	4	1	29.4	17.4	105.3	181.2	5.5	159.2	0.0	46.9
89F00354	F	4	1	25.6	10.7	110.9	94.8	1.8	479.9	0.0	41.5
89F00374	F	4	1	37.4	15.9	87.3	50.1	5.0	727.9	0.0	85.3
89F00380	F	4	1	15.3	7.7	93.5	51.3	7.5	1684.6	0.0	60.0
89F00387	F	4	1	19.9	14.7	68.9	260.6	4.8	1202.6	0.0	61.4
Mean				25.52	13.28	94.38	217.70	4.92	1050.8	0.00	59.02
Std Dev				8.35	3.99	16.72	91.36	2.05	465.5	0.00	16.96
SEM				3.22	1.76	7.48	40.85	0.92	208.2	0.00	7.59
89F00341	F	5	1	82.3	95.7	75.7	89.1	5.4	2207.8	0.0	59.1
89F00347	F	5	1	31.1	15.9	75.2	58.1	7.0	647.4	0.0	61.4
89F00360	F	5	1	13.2	8.9	95.4	82.4	3.6	833.6	0.0	27.3
89F00375	F	5	1	32.8	10.0	64.6	36.2	2.9	1016.0	0.0	70.3
89F00394	F	5	1	20.6	14.8	86.3	166.4	4.8	1366.5	0.0	38.3
Mean				36.00	27.06	79.44	86.44	4.74	1214.2	0.00	51.28
Std Dev				27.09	32.92	11.77	49.36	1.60	615.6	0.00	17.81
SEM				12.11	14.72	5.26	22.07	0.72	275.3	0.00	7.97
89F00343	F	6	1	20.9	8.5	91.8	35.0	4.7	635.5	0.0	59.1
89F00357	F	6	1	23.1	10.9	108.7	78.1	2.3	865.1	0.0	38.7
89F00362	F	6	1	31.8	12.3	61.9	40.8	2.4	538.7	0.0	20.6
89F00363	F	6	1	24.5	11.0	74.1	59.5	4.6	452.8	0.0	31.1
89F00379	F	6	1	39.5	5.9	49.0	23.2	6.2	314.7	0.0	45.0
Mean				27.96	9.72	77.00	47.32	4.04	601.4	0.00	34.38
Std Dev				7.64	2.54	23.52	21.63	1.67	161.1	0.00	14.45
SEM				3.42	1.14	10.52	9.67	0.75	74.2	0.00	4.55

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00344	F	7	1	40.5	49.1	118.1	155.7	3.4	2796.7	0.0	41.3
89F00353	F	7	1	19.0	16.6	103.5	84.0	4.1	325.9	0.0	41.1
89F00366	F	7	1	20.0	8.2	73.2	41.5	4.9	591.4	0.0	82.0
89F00372	F	7	1	48.0	24.3	80.7	51.8	7.1	1575.3	0.0	41.5
89F00390	F	7	1	19.3	14.1	58.2	74.7	3.5	1303.0	0.0	43.0
Mean				29.36	22.46	86.74	81.54	4.60	1318.5	0.00	49.78
Std Dev				13.85	15.97	23.97	44.83	1.52	970.2	0.00	18.03
SEM				6.20	7.14	10.72	20.05	0.68	433.9	0.00	8.06
89F00346	F	8	1	35.2	28.6	91.9	124.5	4.3	941.1	0.0	34.4
89F00359	F	8	1	21.6	9.2	117.2	46.2	3.3	545.3	0.0	46.5
89F00365	F	8	1	20.6	14.5	111.4	37.5	5.0	633.2	0.0	39.5
89F00392	F	8	1	32.9	25.6	97.8	84.0	4.3	2734.7	0.0	38.9
89F00393	F	8	1	16.9	11.7	95.5	78.2	4.2	637.9	0.0	35.0
Mean				25.44	17.92	102.76	74.08	4.22	1098.4	0.00	38.86
Std Dev				8.09	8.65	10.94	34.54	0.61	926.9	0.00	4.84
SEM				3.62	3.87	4.89	15.45	0.27	414.5	0.00	2.16
89F00340	F	9	1	28.3	49.8	71.2	49.4	4.1	1857.4	0.0	34.1
89F00349	F	9	1	36.6	30.9	64.5	52.2	5.1	1020.4	0.0	44.3
89F00356	F	9	1	13.5	18.8	68.2	56.2	4.7	532.3	0.0	18.3
89F00367	F	9	1	15.6	16.9	82.0	132.2	4.9	555.1	0.0	29.3
89F00384	F	9	1	29.4	22.8	66.2	33.4	8.7	427.2	0.0	28.5
Mean				24.68	27.84	70.42	64.68	5.50	878.5	0.00	30.90
Std Dev				9.81	13.40	6.94	38.73	1.83	593.0	0.00	9.45
SEM				4.39	5.99	3.10	17.32	0.82	265.2	0.00	4.22

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00350	F	10	1	85	0.0	6.1	4.4	2.5	103.6	18.5	1.2
89F00351	F	10	1	14	0.0	5.5	4.0	2.7	151.8	18.4	1.0
89F00364	F	10	1	42	0.2	6.5	4.6	2.3	103.8	18.9	1.1
89F00373	F	10	1	114	0.1	6.3	4.9	3.3	111.1	17.6	1.2
89F00381	F	10	1	48	0.0	5.6	4.3	3.2	122.3	13.4	1.2
Mean				60.6	0.06	6.00	4.44	2.80	118.52	17.36	1.14
Std Dev				39.1	0.09	0.44	0.34	0.44	20.10	2.26	0.09
SEM				17.5	0.04	0.19	0.15	0.19	8.99	1.01	0.04



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00338	F	1	1	64	0.1	5.5	3.6	1.9	127.9	13.9	0.8
89F00339	F	1	1	71	0.1	6.4	4.4	2.2	131.2	15.6	1.0
89F00352	F	1	1	49	0.0	5.7	4.0	2.4	133.2	17.0	1.0
89F00369	F	1	1	65	0.0	5.8	4.1	2.4	114.0	19.2	1.1
89F00377	F	1	1	34	0.0	5.2	3.5	2.1	104.6	14.3	1.0
Mean				56.6	0.04	5.72	3.92	2.20	122.18	16.00	0.98
Std Dev				15.0	0.05	0.44	0.37	0.21	12.36	2.16	0.11
SEM				6.7	0.02	0.20	0.17	0.09	5.53	0.97	0.05
89F00337	F	2	1	107	0.0	5.8	4.4	3.1	112.9	19.0	0.8
89F00358	F	2	1	17	0.0	5.8	3.9	2.0	128.5	15.1	1.3
89F00371	F	2	1	90	0.0	6.7	4.2	1.7	104.6	18.8	1.1
89F00389	F	2	1	59	0.1	6.2	4.3	2.2	116.9	15.9	0.9
89F00391	F	2	1	127	0.0	5.6	3.9	2.2	111.3	16.1	1.3
Mean				80.0	0.02	6.02	4.14	2.24	114.84	16.98	1.08
Std Dev				43.2	0.04	0.44	0.23	0.52	8.83	1.79	0.23
SEM				19.3	0.02	0.20	0.10	0.23	3.95	0.80	0.10
89F00348	F	3	1	43	0.0	6.1	4.7	3.2	72.8	27.6	1.1
89F00355	F	3	1	108	0.0	6.2	4.2	2.2	141.5	16.3	0.9
89F00368	F	3	1	129	0.1	6.6	4.3	1.8	119.0	17.2	1.2
89F00370	F	3	1	30	0.1	6.5	4.2	1.9	111.9	18.3	0.5
89F00383	F	3	1	57	0.0	6.6	4.2	1.7	123.9	13.1	1.0
Mean				73.4	0.04	6.40	4.32	2.16	113.82	18.50	0.94
Std Dev				42.9	0.05	0.23	0.22	0.61	25.40	5.44	0.27
SEM				19.2	0.02	0.10	0.10	0.27	11.36	2.43	0.12

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00345	F	4	1	128	0.0	6.4	4.8	3.0	106.3	18.2	1.0
89F00354	F	4	1	109	0.2	5.9	4.5	3.1	146.4	14.1	0.8
89F00374	F	4	1	193	0.1	7.2	4.9	2.1	140.7	16.7	2.6
89F00380	F	4	1	71	0.0	5.4	4.0	2.9	109.5	11.9	1.2
89F00387	F	4	1	111	0.1	5.4	4.2	3.3	118.5	16.7	1.2
Mean				122.4	0.08	6.06	4.48	2.88	124.28	15.52	1.36
Std Dev				44.6	0.08	0.76	0.38	0.46	18.26	2.50	0.71
SEM				20.0	0.04	0.34	0.17	0.21	8.17	1.12	0.32
89F00341	F	5	1	107	0.1	6.1	4.2	2.1	128.0	23.9	1.4
89F00347	F	5	1	102	0.0	6.4	4.5	2.4	117.0	20.3	1.0
89F00360	F	5	1	88	0.1	5.4	3.9	2.7	153.4	12.7	0.9
89F00375	F	5	1	93	0.1	5.9	4.2	2.4	124.9	17.1	1.0
89F00394	F	5	1	167	0.1	6.0	4.1	2.2	152.4	19.1	1.1
Mean				111.4	0.08	5.96	4.18	2.36	135.14	18.62	1.08
Std Dev				32.0	0.04	0.36	0.22	0.23	16.71	4.13	0.19
SEM				14.3	0.02	0.16	0.10	0.10	7.47	1.85	0.09
89FC0343	F	6	1	69	0.0	6.3	4.6	2.6	139.0	16.4	0.9
89F00357	F	6	1	39	0.1	5.3	4.0	3.0	141.0	12.7	0.9
89F00362	F	6	1	102	0.2	6.0	4.2	2.4	132.6	15.6	1.0
89F00363	F	6	1	103	0.1	6.3	4.8	3.4	121.4	19.3	1.4
89F00379	F	6	1	60	0.1	5.8	4.2	2.5	124.6	16.6	1.0
Mean				74.6	0.10	5.94	4.36	2.78	131.72	16.12	1.04
Std Dev				27.7	0.07	0.42	0.33	0.41	8.62	2.37	0.21
SEM				12.4	0.03	0.19	0.15	0.19	3.85	1.06	0.09

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00344	F	7	1	67	0.0	5.9	4.2	2.5	93.4	15.3	1.6
89F00353	F	7	1	49	0.0	5.9	4.1	2.3	130.4	20.0	1.1
89F00366	F	7	1	70	0.1	6.2	4.2	2.1	122.0	16.2	0.9
89F00372	F	7	1	114	0.1	6.3	4.5	2.5	136.1	15.9	0.8
89F00390	F	7	1	63	0.1	6.0	3.8	1.7	122.6	15.4	0.8
Mean				72.6	0.06	6.06	4.16	2.22	120.90	16.56	1.04
Std Dev				24.5	0.05	0.18	0.25	0.33	16.44	1.96	0.34
SEM				11.0	0.02	0.08	0.11	0.15	7.35	0.88	0.15
89F00346	F	8	1	26	0.0	5.8	4.3	3.0	107.8	20.7	1.0
89F00359	F	8	1	86	0.0	6.1	4.4	2.6	128.8	15.9	1.1
89F00365	F	8	1	61	0.0	6.7	4.0	1.5	107.4	16.1	0.8
89F00392	F	8	1	36	0.0	6.1	3.7	1.6	116.2	15.8	0.7
89F00393	F	8	1	89	0.1	6.0	3.8	1.7	145.9	18.0	0.9
Mean				59.6	0.02	6.14	4.04	2.08	121.22	17.30	0.90
Std Dev				28.5	0.04	0.34	0.30	0.68	16.30	2.10	0.16
SEM				12.7	0.02	0.15	0.14	0.30	7.29	0.94	0.07
89F00340	F	9	1	37	0.1	6.0	3.9	1.9	107.4	21.4	1.2
89F00349	F	9	1	127	0.1	6.1	4.1	2.0	110.0	17.4	0.9
89F00356	F	9	1	63	0.0	5.5	3.8	2.2	152.1	13.4	0.9
89F00367	F	9	1	54	0.1	6.5	4.1	1.7	112.5	18.3	1.0
89F00384	F	9	1	44	0.1	6.6	3.9	1.4	114.6	13.7	1.2
Mean				65.0	0.08	6.14	3.96	1.84	119.32	16.84	1.04
Std Dev				36.0	0.04	0.44	0.13	0.30	18.52	3.35	0.15
SEM				16.1	0.02	0.20	0.06	0.14	8.28	1.50	0.07

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00350	F	10	1	13.5	3.6	148.9	113	3.8	148.6	1.84
89F00351	F	10	1	13.5	3.7	145.0	116	4.2	298.9	1.84
89F00364	F	10	1	14.2	2.7	146.8	110	4.0	464.2	2.01
89F00373	F	10	1	14.0	3.0	147.3	111	4.8	366.9	2.14
89F00381	F	10	1	13.8	3.3	148.2	116	4.7	395.2	1.90
Mean				13.80	3.26	147.24	113.2	4.30	334.76	1.946
Std Dev				0.31	0.42	1.49	2.8	0.44	119.77	0.129
SEM				0.14	0.19	0.67	1.2	0.19	53.56	0.058

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00338	F	1	1	13.7	4.0	148.7	112	3.5	554.1	1.63
89F00339	F	1	1	13.2	4.1	148.5	115	3.6	444.1	1.73
89F00352	F	1	1	13.6	3.1	146.6	115	4.4	123.0	1.64
89F00369	F	1	1	13.5	3.4	148.1	112	4.2	152.4	1.75
89F00377	F	1	1	12.8	3.7	147.0	115	4.3	159.7	1.78
Mean				13.36	3.66	147.78	113.8	4.00	286.66	1.706
Std Dev				0.36	0.42	0.93	1.6	0.42	198.27	0.067
SEM				0.16	0.19	0.42	0.7	0.19	88.67	0.030
89F00337	F	2	1	13.7	3.6	149.5	110	3.7	248.0	1.66
89F00358	F	2	1	12.9	3.3	145.9	113	4.4	453.5	1.52
89F00371	F	2	1	13.7	2.4	149.0	110	3.5	193.1	1.75
89F00389	F	2	1	12.8	3.0	149.1	116	3.9	450.2	1.70
89F00391	F	2	1	13.0	4.2	146.6	114	4.3	377.5	1.60
Mean				13.22	3.30	148.02	112.6	3.96	344.46	1.646
Std Dev				0.44	0.67	1.65	2.6	0.38	118.72	0.089
SEM				0.20	0.30	0.74	1.2	0.17	53.09	0.040
89F00348	F	3	1	14.0	4.4	149.5	110	4.5	81.2	2.14
89F00355	F	3	1	14.2	3.1	147.4	112	5.1	294.0	1.58
89F00368	F	3	1	14.4	3.8	148.0	104	4.3	100.7	1.78
89F00370	F	3	1	13.0	3.2	146.5	111	4.1	167.6	1.97
89F00383	F	3	1	14.4	4.6	148.2	110	5.2	349.8	1.85
Mean				14.00	3.82	147.92	109.4	4.64	198.66	1.864
Std Dev				0.58	0.68	1.10	3.1	0.49	118.63	0.209
SEM				0.26	0.30	0.49	1.4	0.22	53.05	0.094

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00345	F	4	1	14.8	3.8	150.4	114	4.4	124.8	2.02
89F00354	F	4	1	14.2	3.3	147.0	117	4.8	401.0	1.87
89F00374	F	4	1	15.8	3.6	153.5	109	2.9	494.1	2.21
89F00380	F	4	1	13.5	3.0	144.6	115	4.0	271.5	1.80
89F00387	F	4	1	14.3	4.5	145.8	111	5.0	153.3	1.94
Mean				14.52	3.64	148.26	113.2	4.22	288.94	1.968
Std Dev				0.85	0.57	3.64	3.2	0.83	158.34	0.158
SEM				0.38	0.25	1.63	1.4	0.37	70.81	0.071
89F00341	F	5	1	13.3	3.2	161.9	124	3.4	869.2	1.51
89F00347	F	5	1	14.4	3.4	147.8	113	4.0	485.4	1.71
89F00360	F	5	1	13.5	4.4	145.2	112	4.5	333.9	1.75
89F00375	F	5	1	13.3	3.2	147.7	108	3.8	556.1	1.46
89F00394	F	5	1	12.5	3.4	148.5	110	4.3	286.4	1.82
Mean				13.40	3.52	150.22	113.4	4.00	506.20	1.650
Std Dev				0.68	0.50	6.65	6.2	0.43	230.59	0.157
SEM				0.30	0.22	2.97	2.8	0.19	103.12	0.070
89F00343	F	6	1	14.4	3.7	147.6	112	3.8	520.7	1.55
89F00357	F	6	1	13.7	4.0	146.0	116	4.4	432.1	1.85
89F00362	F	6	1	14.3	3.1	148.4	115	4.7	595.5	1.68
89F00363	F	6	1	14.7	3.7	147.3	104	4.1	241.1	1.94
89F00379	F	6	1	14.1	4.1	149.8	113	4.4	386.4	1.74
Mean				14.24	3.72	147.82	112.0	4.28	435.16	1.752
Std Dev				0.37	0.39	1.40	4.7	0.34	135.16	0.151
SEM				0.17	0.17	0.63	2.1	0.15	60.45	0.067

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00344	F	7	1	13.3	3.4	146.1	106	3.3	38.2	1.93
89F00353	F	7	1	13.9	3.9	147.2	115	4.9	416.8	1.69
89F00366	F	7	1	14.4	2.4	147.4	108	4.1	334.7	1.65
89F00372	F	7	1	13.5	2.7	148.1	111	3.8	588.6	1.74
89F00390	F	7	1	11.7	2.9	147.2	112	4.1	737.9	1.59
Mean				13.36	3.06	147.20	110.4	4.04	423.24	1.720
Std Dev				1.02	0.59	0.72	3.5	0.58	265.75	0.130
SEM				0.46	0.27	0.32	1.6	0.26	118.85	0.058
89F00346	F	8	1	14.0	3.1	147.1	111	3.6	109.9	1.78
89F00359	F	8	1	14.6	4.2	148.3	109	4.1	500.6	2.22
89F00365	F	8	1	13.7	3.6	145.0	108	4.0	382.0	1.69
89F00392	F	8	1	11.8	2.9	149.0	113	3.9	398.3	1.49
89F00393	F	8	1	12.9	3.7	150.0	109	4.6	508.8	1.74
Mean				13.40	3.50	147.88	110.0	4.04	379.92	1.784
Std Dev				1.08	0.51	1.93	2.0	0.36	161.58	0.268
SEM				0.48	0.23	0.86	0.9	0.16	72.26	0.120
89F00340	F	9	1	13.1	2.8	149.0	115	4.0	543.8	1.54
89F00349	F	9	1	13.4	3.2	149.8	114	3.9	549.8	1.70
89F00356	F	9	1	13.3	3.8	145.6	113	4.2	263.6	1.87
89F00367	F	9	1	13.5	3.7	147.4	113	4.1	194.7	1.72
89F00384	F	9	1	13.6	3.4	146.8	113	4.3	134.0	1.69
Mean				13.38	3.38	147.72	113.6	4.10	337.18	1.704
Std Dev				0.19	0.40	1.69	0.9	0.16	196.78	0.117
SEM				0.09	0.18	0.76	0.4	0.07	88.00	0.052

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00350	F	10	2	21.6	8.6	70.5	40.6	5.1	552.7	0.0	30.9
89F00351	F	10	2	28.2	12.5	67.2	159.3	5.5	604.6	0.0	40.9
89F00364	F	10	2	24.2	9.7	37.7	35.5	6.0	496.8	0.0	39.4
89F00373	F	10	2	29.7	5.1	95.0	53.9	5.3	763.2	0.0	40.5
89F00381	F	10	2	24.6	7.4	66.8	36.7	5.3	443.0	0.0	32.0
Mean				25.66	9.46	67.44	65.20	5.44	572.1	0.00	36.74
Std Dev				3.26	1.90	20.33	53.11	0.34	122.8	0.00	4.88
SEM				1.46	0.85	9.09	23.75	0.15	54.9	0.00	2.18



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00338	F	1	2	19.2	17.7	79.3	44.3	4.9	376.5	0.0	32.7
89F00339	F	1	2	46.9	33.0	144.4	46.1	4.9	1188.3	0.0	71.7
89F00352	F	1	2	18.5	18.1	85.4	100.7	6.6	888.9	0.0	50.1
89F00369	F	1	2	19.3	17.4	102.6	49.8	5.9	255.2	0.0	52.8
89F00377	F	1	2	19.6	14.5	190.9	29.3	9.2	174.6	0.0	43.6
Mean				24.70	20.14	120.52	54.04	6.30	576.7	0.00	50.18
Std Dev				12.42	7.33	46.84	27.23	1.77	440.7	0.00	14.31
SEM				5.55	3.28	20.95	12.18	0.79	197.1	0.00	6.40
89F00337	F	2	2	31.4	20.0	238.7	36.4	5.6	620.2	0.0	55.2
89F00358	F	2	2	21.6	17.7	43.1	44.0	3.5	155.5	0.0	44.8
89F00371	F	2	2	12.4	21.9	65.1	39.4	6.1	370.1	0.0	32.5
89F00389	F	2	2	18.9	23.7	50.9	41.7	5.9	1062.8	0.0	53.6
89F00391	F	2	2	23.7	24.9	89.5	63.6	6.4	459.4	0.0	42.1
Mean				21.60	21.64	97.46	45.02	5.50	533.6	0.00	45.64
Std Dev				6.94	2.88	80.90	10.76	1.16	340.1	0.00	9.23
SEM				3.10	1.29	36.18	4.81	0.52	152.1	0.00	4.13
89F00348	F	3	2	33.4	26.3	93.8	44.3	4.1	455.3	0.0	33.7
89F00355	F	3	2	22.3	25.5	74.9	38.2	4.6	218.4	0.0	32.3
89F00368	F	3	2	34.3	34.6	67.5	54.8	8.0	364.3	0.0	43.6
89F00370	F	3	2	37.3	31.8	27.7	180.1	5.2	1646.7	0.0	42.9
89F00383	F	3	2	31.4	23.3	110.0	48.5	4.4	285.1	0.0	34.9
Mean				31.74	28.30	74.78	73.18	5.26	594.0	0.00	37.48
Std Dev				5.69	4.71	31.11	60.08	1.58	595.1	0.00	5.35
SEM				2.54	2.11	13.91	26.87	0.71	266.1	0.00	2.39

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00345	F	4	2	27.2	14.5	107.0	48.0	4.6	721.9	0.0	44.6
89F00354	F	4	2	21.7	7.5	101.9	40.1	4.9	380.9	0.0	44.0
89F00374	F	4	2	35.3	12.2	82.5	44.3	5.6	821.3	0.0	74.7
89F00380	F	4	2	13.4	12.2	95.0	201.3	7.0	1305.1	0.0	55.7
89F00387	F	4	2	25.3	11.2	74.4	154.3	3.5	1225.9	0.0	57.2
Mean				24.58	11.52	92.16	97.60	5.12	891.0	0.00	55.24
Std Dev				7.99	2.55	13.53	75.13	1.29	379.9	0.00	12.47
SEM				3.57	1.14	6.05	33.60	0.58	169.9	0.00	5.58
89F00341	F	5	2	42.9	26.0	49.4	187.7	6.0	5117.9	0.0	76.4
89F00347	F	5	2	28.0	15.6	61.4	69.5	5.2	489.0	0.0	58.4
89F00360	F	5	2	11.5	7.8	85.3	47.3	5.9	1038.1	0.0	28.5
89F00375	F	5	2	31.7	8.1	63.5	38.2	4.2	430.7	0.0	55.3
89F00394	F	5	2	20.4	16.2	88.0	154.8	5.1	1410.2	0.0	39.3
Mean				26.90	14.74	69.52	99.50	5.28	1697.2	0.00	51.58
Std Dev				11.83	7.45	16.56	67.49	0.73	1954.6	0.00	18.44
SEM				5.29	3.33	7.41	30.18	0.32	874.1	0.00	8.25
89F00343	F	6	2	19.8	6.8	83.9	30.0	7.0	384.6	0.0	54.8
89F00357	F	6	2	20.1	8.8	92.6	68.8	4.3	612.4	0.0	38.2
89F00362	F	6	2	31.9	14.0	54.1	140.6	2.8	1099.8	0.0	25.2
89F00363	F	6	2	died							
89F00379	F	6	2	32.4	7.4	46.4	32.5	7.7	382.4	0.0	49.6
Mean				26.05	9.25	69.25	67.98	5.45	619.8	0.00	41.95
Std Dev				7.05	3.28	22.45	51.56	2.30	337.7	0.00	13.14
SEM				3.52	1.64	11.22	25.78	1.15	168.9	0.00	6.57

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00344	F	7	2	39.8	34.7	91.5	40.9	3.8	719.4	0.0	31.8
89F00353	F	7	2	14.8	18.8	86.6	68.2	5.6	218.8	0.0	35.3
89F00366	F	7	2	18.4	14.7	83.5	43.0	5.7	507.7	0.0	69.9
89F00372	F	7	2	39.8	24.2	83.3	42.2	9.1	907.1	0.0	40.2
89F00390	F	7	2	16.4	16.1	60.4	33.6	6.9	462.3	0.0	39.9
Mean				25.84	21.70	81.06	45.58	6.22	563.1	0.00	43.42
Std Dev				12.81	8.12	12.02	13.18	1.95	262.0	0.00	15.21
SEM				5.73	3.63	5.37	5.90	0.87	117.2	0.00	6.80
89F00346	F	8	2	32.0	27.1	86.2	43.0	4.0	579.4	0.0	26.1
89F00359	F	8	2	23.9	17.2	116.7	36.6	5.0	458.7	0.0	38.4
89F00365	F	8	2	20.1	19.5	116.3	48.4	5.0	564.7	0.0	32.1
89F00392	F	8	2	30.3	39.9	117.8	39.2	4.6	1220.1	0.0	26.5
89F00393	F	8	2	14.6	13.9	104.5	89.0	4.3	318.5	0.0	33.9
Mean				24.18	23.52	108.30	51.24	4.58	628.3	0.00	31.40
Std Dev				7.20	10.37	13.49	21.57	0.44	346.9	0.00	5.19
SEM				3.22	4.64	6.03	9.65	0.20	155.1	0.00	2.32
89F00340	F	9	2	21.7	36.4	69.4	147.1	4.8	724.4	0.0	29.3
89F00349	F	9	2	29.0	27.6	59.7	41.7	5.1	576.8	0.0	39.5
89F00356	F	9	2	14.1	25.1	69.6	95.3	5.9	419.1	0.0	16.0
89F00367	F	9	2	15.0	23.2	92.1	103.9	6.2	602.8	0.0	23.5
89F00384	F	9	2	28.3	30.1	72.0	164.7	5.2	839.6	0.0	25.4
Mean				21.62	28.48	72.56	110.54	5.44	632.5	0.00	26.74
Std Dev				7.06	5.13	11.90	48.18	0.59	158.8	0.00	8.62
SEM				3.16	2.30	5.32	21.55	0.26	71.0	0.00	3.85

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00350	F	10	2	56	0.0	6.3	4.1	1.8	193.0	16.8	1.4
89F00351	F	10	2	66	0.1	5.7	4.5	4.0	132.0	19.8	1.1
89F00364	F	10	2	32	0.0	6.2	4.2	2.1	108.2	19.0	1.0
89F00373	F	10	2	40	0.1	6.0	4.7	3.4	106.3	20.7	1.4
89F00381	F	10	2	55	0.1	5.7	4.3	3.0	128.3	16.3	1.2
Mean				49.8	0.06	5.98	4.36	2.86	133.56	18.52	1.22
Std Dev				13.6	0.05	0.28	0.24	0.91	35.18	1.90	0.18
SEM				6.1	0.02	0.12	0.11	0.41	15.73	0.85	0.08

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00338	F	1	2	47	0.1	5.5	3.9	2.5	111.2	15.4	0.9
89F00339	F	1	2	115	0.0	6.2	4.3	2.2	119.8	11.4	1.1
89F00352	F	1	2	78	0.1	5.7	4.1	2.5	148.7	17.1	1.1
89F00369	F	1	2	33	0.0	5.8	3.7	1.7	106.9	16.6	1.2
89F00377	F	1	2	47	0.0	5.7	3.3	1.4	131.6	15.0	1.0
Mean				64.0	0.04	5.78	3.86	2.06	123.64	15.10	1.06
Std Dev				32.9	0.05	0.26	0.38	0.49	16.89	2.24	0.11
SEM				14.7	0.02	0.12	0.17	0.22	7.55	1.00	0.05
89F00337	F	2	2	99	0.0	5.8	4.3	2.9	130.7	18.0	0.9
89F00358	F	2	2	45	0.0	6.2	3.8	1.6	134.4	15.7	1.2
89F00371	F	2	2	76	0.1	6.7	3.8	1.3	115.2	16.3	1.2
89F00389	F	2	2	45	0.1	6.5	3.8	1.4	119.4	17.8	1.2
89F00391	F	2	2	77	0.1	5.8	3.9	2.1	132.8	19.2	1.0
Mean				68.4	0.06	6.20	3.92	1.86	126.50	17.40	1.10
Std Dev				23.3	0.05	0.41	0.22	0.66	8.63	1.40	0.14
SEM				10.4	0.02	0.18	0.10	0.29	3.86	0.63	0.06
89F00344	F	3	2	76	0.1	5.8	3.7	1.8	138.9	12.0	2.5
89F00355	F	3	2	96	0.1	6.6	4.2	1.7	125.7	16.3	0.8
89F00360	F	3	2	153	0.0	6.9	3.7	1.1	116.0	17.8	1.4
89F00370	F	3	2	45	0.1	6.5	3.7	1.3	111.6	19.6	1.0
89F00383	F	3	2	64	0.1	7.0	3.8	1.2	119.7	14.6	1.1
Mean				86.8	0.08	6.56	3.82	1.42	122.38	16.06	1.36
Std Dev				41.4	0.04	0.47	0.22	0.31	10.58	2.93	0.67
SEM				18.5	0.02	0.21	0.10	0.14	4.73	1.31	0.30

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00345	F	4	2	78	0.0	6.6	4.6	2.4	116.7	13.2	1.1
89F00354	F	4	2	122	0.1	5.8	4.6	3.9	146.9	15.8	0.9
89F00374	F	4	2	129	0.1	6.4	4.3	2.0	121.3	16.5	1.3
89F00380	F	4	2	73	0.0	5.3	3.8	2.6	132.2	19.7	1.2
89F00387	F	4	2	221	0.2	6.8	4.7	2.3	164.0	19.5	1.3
Mean				124.6	0.08	6.18	4.40	2.64	136.22	16.94	1.16
Std Dev				59.5	0.08	0.62	0.37	0.74	19.40	2.72	0.17
SEM				26.6	0.04	0.28	0.26	0.33	8.68	1.22	0.07
89F00341	F	3	2	208	0.0	5.7	4.1	2.5	117.5	21.1	1.5
89F00347	F	5	2	187	0.0	5.1	4.3	1.9	140.9	18.2	1.2
89F00360	F	5	2	103	0.1	5.8	4.4	3.3	122.7	13.5	0.9
89F00375	F	5	2	15	-	5.3	4.0	3.3	126.5	14.7	1.0
89F00394	F	5	2	178	0.0	6.5	4.6	2.4	127.1	18.9	1.1
Mean				160.8	0.04	5.92	4.24	2.70	126.94	17.28	1.14
Std Dev				75.5	0.05	0.48	0.25	0.60	8.69	3.12	0.23
SEM				33.8	0.02	0.22	0.11	0.27	3.89	1.40	0.10
89F00343	F	6	2	81	0.1	6.3	4.9	3.4	128.2	11.7	1.1
89F00357	F	6	2	53	0.0	5.4	4.1	3.2	145.2	13.7	0.9
89F00362	F	6	2	107	0.2	5.5	4.3	3.6	140.8	20.4	1.1
89F00363	F	6	2	died							
89F00379	F	6	2	68	0.1	6.5	4.4	2.2	116.0	13.7	1.3
Mean				77.3	0.10	5.93	4.43	3.10	132.55	14.88	1.10
Std Dev				22.9	0.08	0.56	0.34	0.62	13.18	3.80	0.16
SEM				11.4	0.04	0.28	0.17	0.31	6.59	1.90	0.08

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00344	F	7	2	68	0.2	6.1	4.0	1.9	139.6	11.9	1.8
89F00353	F	7	2	77	0.0	5.7	4.0	2.4	129.1	20.4	1.0
89F00366	F	7	2	39	0.0	6.4	3.9	1.6	113.8	12.7	0.9
89F00372	F	7	2	65	0.2	6.1	4.1	1.9	128.7	15.3	0.8
89F00390	F	7	2	48	0.1	6.1	3.8	1.7	134.1	14.1	0.9
Mean				59.4	0.10	6.08	3.96	1.90	129.06	14.88	1.08
Std Dev				15.5	0.10	0.25	0.11	0.31	9.61	3.35	0.41
SEM				6.9	0.04	0.11	0.05	0.14	4.30	1.50	0.18
89F00346	F	8	2	NT	0.1	6.0	3.8	1.7	142.9	17.6	1.0
89F00359	F	8	2	117	0.1	5.7	4.3	3.0	140.8	16.6	1.0
89F00365	F	8	2	64	0.0	6.5	3.5	1.2	112.6	15.7	0.9
89F00392	F	8	2	59	0.0	6.9	3.9	1.3	107.8	17.2	0.9
89F00393	F	8	2	97	0.0	7.0	4.2	1.5	128.3	18.7	0.9
Mean				84.3	0.04	6.42	3.94	1.74	126.48	17.16	0.94
Std Dev				27.6	0.05	0.56	0.32	0.73	15.97	1.12	0.05
SEM				13.8	0.02	0.25	0.14	0.33	7.14	0.50	0.02
89F00340	F	9	2	52	0.0	5.7	3.7	1.9	116.1	11.7	1.1
89F00349	F	9	2	116	0.1	6.1	3.5	1.4	149.9	18.2	0.9
89F00356	F	9	2	83	0.0	6.3	3.9	1.7	133.4	14.1	1.0
89F00367	F	9	2	33	0.0	6.7	3.4	1.0	126.3	15.9	1.1
89F00384	F	9	2	67	0.1	7.7	3.8	1.0	124.4	15.1	1.3
Mean				70.2	0.04	6.50	3.66	1.40	130.02	15.00	1.08
Std Dev				31.6	0.05	0.76	0.21	0.41	12.71	2.39	0.15
SEM				14.1	0.02	0.34	0.09	0.18	5.68	1.07	0.07

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00350	F	10	2	14.2	3.4	149.1	114	3.9	430.6	1.93
89F00351	F	10	2	14.5	4.1	144.2	115	4.4	260.6	1.86
89F00364	F	10	2	13.7	3.3	148.7	115	4.2	427.6	1.84
89F00373	F	10	2	13.4	4.3	149.2	115	4.6	376.4	2.36
89F00381	F	10	2	14.8	3.4	148.6	116	4.5	392.8	1.91
Mean				14.12	3.70	147.96	115.0	4.32	377.60	1.980
Std Dev				0.57	0.46	2.12	0.7	0.28	69.34	0.216
SEM				0.26	0.21	0.95	0.3	0.12	31.01	0.096



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00338	F	1	2	13.7	4.2	145.8	110	3.4	582.9	1.70
89F00339	F	1	2	14.2	4.3	147.2	109	4.1	717.0	1.70
89F00352	F	1	2	14.2	4.2	146.4	111	3.9	307.1	1.57
89F00369	F	1	2	12.7	4.0	146.1	116	4.3	318.0	1.56
89F00377	F	1	2	13.7	4.1	146.4	114	3.8	306.5	1.92
Mean				13.70	4.16	146.38	112.0	3.90	446.30	1.690
Std Dev				0.61	0.11	0.52	2.9	0.34	191.91	0.145
SEM				0.27	0.05	0.23	1.3	0.15	85.83	0.065
89F00337	F	2	2	13.9	4.0	147.2	109	3.7	481.9	1.69
89F00358	F	2	2	12.7	3.4	144.5	112	4.2	408.4	1.44
89F00371	F	2	2	13.5	3.6	151.4	117	4.7	304.2	1.67
89F00389	F	2	2	13.5	3.1	148.0	115	3.7	163.6	2.04
89F00391	F	2	2	13.4	2.9	146.7	111	4.7	371.0	1.61
Mean				13.40	3.40	147.56	112.8	4.20	345.82	1.690
Std Dev				0.44	0.43	2.51	3.2	0.50	120.42	0.219
SEM				0.19	0.19	1.12	1.4	0.22	53.85	0.098
89F00348	F	3	2	13.1	3.8	148.6	114	3.9	466.6	1.55
89F00355	F	3	2	13.6	3.5	146.8	115	4.6	260.3	1.38
89F00368	F	3	2	13.6	4.3	148.1	109	4.5	338.8	1.70
89F00370	F	3	2	12.5	4.4	146.5	111	4.2	213.8	1.93
89F00383	F	3	2	13.7	4.5	145.4	109	5.1	529.2	1.66
Mean				13.30	4.10	147.08	111.6	4.46	361.74	1.644
Std Dev				0.50	0.43	1.28	2.8	0.45	133.92	0.202
SEM				0.23	0.19	0.57	1.2	0.20	59.89	0.090

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00345	F	4	2	13.9	4.3	149.1	118	4.0	318.8	1.89
89F00354	F	4	2	14.2	4.3	147.5	114	4.8	412.2	1.88
89F00374	F	4	2	14.6	4.1	149.7	106	3.7	241.3	2.06
89F00380	F	4	2	14.5	4.2	146.4	113	3.9	146.7	2.05
89F00387	F	4	2	15.4	4.7	148.9	112	4.1	134.7	2.26
Mean				14.52	4.32	148.32	112.6	4.10	250.74	2.028
Std Dev				0.56	0.23	1.34	4.3	0.42	117.35	0.155
SEM				0.25	0.11	0.60	1.9	0.19	52.48	0.069
89F00341	F	5	2	14.0	3.9	153.0	114	4.1	1155.9	1.61
89F00347	F	5	2	14.1	4.2	147.8	110	3.9	521.2	1.86
89F00360	F	5	2	14.2	4.6	144.2	109	4.2	326.6	1.69
89F00375	F	5	2	13.4	4.1	147.2	109	4.5	527.0	1.72
89F00394	F	5	2	13.6	3.2	148.8	114	3.9	259.2	1.88
Mean				13.86	4.00	148.20	111.2	4.12	557.98	1.752
Std Dev				0.34	0.51	3.18	2.6	0.25	354.48	0.115
SEM				0.15	0.23	1.42	1.2	0.11	158.53	0.052
89F00343	F	6	2	13.9	4.6	148.0	114	4.3	493.8	1.65
89F00357	F	6	2	13.4	4.8	145.0	112	4.8	376.5	1.76
89F00362	F	6	2	14.4	3.7	146.8	114	5.7	312.2	2.01
89F00363	F	6	2	died						
89F00379	F	6	2	14.4	4.5	148.0	110	3.3	494.1	1.76
Mean				14.03	4.40	146.95	112.5	4.65	419.15	1.795
Std Dev				0.48	0.48	1.42	1.9	0.81	90.27	0.152
SEM				0.24	0.24	0.71	1.0	0.41	45.14	0.076

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00344	F	7	2	13.9	4.2	146.4	111	3.5	856.1	1.59
89F00353	F	7	2	13.6	3.6	145.9	114	4.1	465.2	1.50
89F00366	F	7	2	13.8	4.3	146.6	110	3.9	386.7	1.72
89F00372	F	7	2	13.4	3.8	149.7	111	3.9	431.6	1.74
89F00390	F	7	2	13.9	2.6	147.3	113	3.7	615.1	1.81
Mean				13.72	3.70	147.18	111.8	3.82	550.94	1.672
Std Dev				0.22	0.68	1.50	1.6	0.23	190.92	0.125
SEM				0.10	0.30	0.67	0.7	0.10	85.38	0.056
89F00346	F	8	2	14.4	3.5	143.7	112	3.5	207.3	1.64
89F00359	F	8	2	13.9	4.1	147.5	110	4.3	437.0	2.05
89F00365	F	8	2	14.0	4.1	145.9	111	4.3	312.6	1.67
89F00392	F	8	2	13.0	3.2	146.6	116	3.7	434.4	1.85
89F00393	F	8	2	13.5	4.2	148.7	115	4.6	160.1	1.96
Mean				13.76	3.82	146.48	112.8	4.08	310.28	1.834
Std Dev				0.53	0.44	1.87	2.6	0.46	127.11	0.178
SEM				0.24	0.20	0.84	1.2	0.21	56.85	0.080
89F00340	F	9	2	12.7	3.6	145.3	113	4.2	105.7	1.44
89F00349	F	9	2	13.0	4.2	146.0	112	4.2	478.4	1.59
89F00356	F	9	2	13.8	4.3	145.1	114	4.9	279.8	1.65
89F00367	F	9	2	13.2	4.7	146.0	113	4.1	173.8	1.55
89F00384	F	9	2	13.6	3.5	146.2	112	3.9	124.3	1.41
Mean				13.26	4.06	145.72	112.8	4.26	232.40	1.528
Std Dev				0.44	0.50	0.49	0.8	0.38	153.24	0.101
SEM				0.20	0.22	0.22	0.4	0.17	68.53	0.045

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00350	F	10	3	26.1	11.9	81.7	89.4	6.0	768.4	0.0	34.1
89F00351	F	10	3	19.4	14.0	57.4	203.5	3.7	870.5	0.0	37.8
89F00364	F	10	3	22.8	9.2	32.2	50.7	6.1	534.9	0.0	42.3
89F00373	F	10	3	26.8	7.9	72.4	39.0	6.1	557.9	0.0	44.6
89F00381	F	10	3	21.9	7.6	59.6	63.8	1.7	501.9	0.0	31.7
Mean				23.40	10.12	60.66	89.28	4.72	646.7	0.00	38.10
Std Dev				3.06	2.75	18.72	66.54	1.98	163.0	0.00	5.41
SEM				1.37	1.23	8.37	29.76	0.88	72.9	0.00	2.42

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00338	F	1	3	22.9	25.3	92.1	166.4	4.4	1232.1	0.0	30.7
89F00339	F	1	3	43.7	23.3	161.7	46.3	4.8	517.4	0.0	63.0
89F00352	F	1	3	17.2	18.6	95.6	65.0	7.3	589.7	0.0	46.2
89F00369	F	1	3	18.9	19.3	106.1	52.1	6.7	218.2	0.0	47.0
89F00377	F	1	3	16.6	16.6	208.5	38.7	6.0	183.5	0.0	36.2
Mean				23.86	20.62	132.80	73.70	5.84	548.2	0.00	44.62
Std Dev				11.36	3.57	50.79	52.71	1.23	422.0	0.00	12.36
SEM				5.08	1.60	22.71	23.57	0.55	188.7	0.00	5.53
89F00337	F	2	3	32.3	22.3	234.4	44.7	4.5	317.9	0.0	54.5
89F00358	F	2	3	17.7	18.8	40.9	50.0	3.5	175.8	0.0	41.4
89F00371	F	2	3	7.7	24.7	63.0	224.0	6.0	727.8	0.0	28.7
89F00389	F	2	3	14.1	21.8	44.8	45.1	3.3	707.0	0.0	44.1
89F00391	F	2	3	8.0	8.6	87.4	53.5	5.5	852.0	0.0	29.2
Mean				15.96	19.24	94.10	83.46	4.56	556.1	0.00	39.58
Std Dev				10.06	6.31	80.56	78.65	1.19	292.0	0.00	10.87
SEM				4.50	2.82	36.03	35.17	0.53	130.6	0.00	4.86
89F00348	F	3	3	31.2	25.5	91.4	42.5	5.4	320.2	0.0	33.1
89F00355	F	3	3	24.8	37.5	70.5	64.6	5.9	363.6	0.0	41.2
89F00368	F	3	3	31.9	34.4	59.2	62.8	8.4	318.4	0.0	42.6
89F00370	F	3	3	32.7	30.4	23.7	275.5	6.1	1086.3	0.0	38.2
89F00383	F	3	3	40.0	30.9	110.4	44.9	4.9	256.2	0.0	35.5
Mean				32.12	31.74	71.04	98.06	6.14	468.9	0.00	38.12
Std Dev				5.41	4.52	32.96	99.70	1.35	347.2	0.00	3.93
SEM				2.42	2.02	14.74	44.59	0.60	155.3	0.00	1.76

## Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00345	F	4	3	30.6	10.9	89.0	61.3	5.3	456.6	0.0	42.6
89F00354	F	4	3	29.4	50.8	113.2	357.0	6.1	9602.8	0.0	47.2
89F00374	F	4	3	41.1	16.1	91.0	51.6	6.4	607.8	0.0	66.1
89F00380	F	4	3	12.5	11.1	93.5	169.6	4.4	1579.2	0.0	51.7
89F00387	F	4	3	21.5	11.8	79.1	181.1	5.2	2467.0	0.0	51.8
Mean				27.02	20.14	93.16	164.12	5.48	2942.7	0.00	51.88
Std Dev				10.70	17.27	12.46	123.24	0.79	3810.4	0.00	8.81
SEM				4.79	7.72	5.57	55.12	0.35	1704.0	0.00	3.94
89F00341	F	5	3	39.0	11.9	48.9	67.7	4.8	2609.1	0.0	56.6
89F00347	F	5	3	25.9	12.2	52.1	95.0	5.4	345.0	0.0	56.1
89F00360	F	5	3	19.6	38.0	103.9	37.3	6.4	432.6	0.0	32.1
89F00375	F	5	3	31.3	10.0	68.3	28.7	5.1	328.8	0.0	58.9
89F00394	F	5	3	18.1	17.7	86.3	265.4	5.4	1236.9	0.0	39.4
Mean				26.78	17.96	71.90	98.82	5.42	990.5	0.00	48.62
Std Dev				8.62	11.56	23.27	96.74	0.60	980.6	0.00	12.08
SEM				3.86	5.17	10.41	43.26	0.27	438.5	0.00	5.40
89F00343	F	6	3	24.2	8.2	75.2	47.0	7.5	369.3	0.0	47.0
89F00357	F	6	3	18.8	7.3	104.7	48.8	4.3	844.6	0.0	41.6
89F00362	F	6	3	26.5	12.4	46.9	89.8	2.8	821.9	0.0	25.1
89F00363	F	6	3	died							
89F00379	F	6	3	26.6	5.9	45.3	53.1	3.5	415.9	0.0	44.9
Mean				24.03	8.45	68.03	59.68	4.53	612.9	0.00	39.65
Std Dev				3.66	2.80	28.04	20.25	2.08	255.3	0.00	9.95
SEM				1.83	1.40	14.02	10.12	1.04	127.6	0.00	4.98

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00344	F	7	3	24.9	20.2	93.9	44.6	4.2	414.6	0.0	29.6
89F00353	F	7	3	14.6	21.1	80.9	119.0	5.3	213.9	0.0	33.7
89F00366	F	7	3	17.5	17.2	75.1	69.9	5.8	540.8	0.0	62.1
89F00372	F	7	3	31.5	21.0	76.3	51.2	8.5	499.3	0.0	35.1
89F00390	F	7	3	12.9	16.7	60.6	50.7	4.0	411.8	0.0	38.0
Mean				20.28	19.24	77.36	67.08	5.56	416.1	0.00	39.70
Std Dev				7.77	2.13	11.97	30.53	1.81	125.9	0.00	12.88
SEM				3.48	0.95	5.35	13.66	0.81	56.3	0.00	5.76
89F00346	F	8	3	33.4	28.0	83.7	71.9	4.7	532.8	0.0	24.4
89F00359	F	8	3	20.0	18.6	110.9	36.3	4.9	305.9	0.0	31.1
89F00365	F	8	3	18.8	22.2	118.5	38.0	5.7	472.4	0.0	27.3
89F00392	F	8	3	27.2	44.7	100.0	58.6	4.3	854.7	0.0	25.3
89F00393	F	8	3	13.5	14.7	94.6	74.8	4.1	214.4	0.0	27.0
Mean				22.58	25.64	101.54	55.92	4.74	476.0	0.00	27.02
Std Dev				7.78	11.73	13.64	18.20	0.62	247.0	0.00	2.58
SEM				3.48	5.24	6.10	8.14	0.28	110.4	0.00	1.15
89F00340	F	9	3	20.6	33.1	68.0	22.1	4.6	235.1	0.0	27.5
89F00349	F	9	3	26.9	25.8	66.4	62.5	6.4	300.6	0.0	36.4
89F00356	F	9	3	14.2	28.8	69.7	85.2	8.2	449.7	0.0	15.7
89F00367	F	9	3	13.3	26.2	87.1	201.0	6.4	873.5	0.0	20.4
89F00384	F	9	3	26.2	30.5	64.0	151.0	5.1	1152.9	0.0	20.8
Mean				20.24	28.88	71.04	104.36	6.14	602.3	0.00	24.16
Std Dev				6.42	3.05	9.22	71.42	1.40	395.6	0.00	8.03
SEM				2.87	1.36	4.12	31.94	0.63	176.9	0.00	3.59

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00350	F	10	3	99	0.2	6.6	4.8	2.6	155.4	17.1	1.4
89F00351	F	10	3	53	0.1	5.5	4.4	3.7	115.5	17.1	1.0
89F00364	F	10	3	44	0.1	6.0	3.9	1.9	100.5	16.1	1.1
89F00373	F	10	3	49	0.1	5.8	4.1	2.3	116.9	15.4	2.0
89F00381	F	10	3	63	0.1	5.7	4.4	3.3	127.0	12.1	1.4
Mean				61.6	0.12	5.92	4.32	2.76	123.06	15.56	1.38
Std Dev				22.0	0.04	0.42	0.34	0.73	20.40	2.06	0.39
SEM				9.9	0.02	0.19	0.15	0.33	9.13	0.92	0.17



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00338	F	1	3	42	0.2	5.1	3.5	2.2	116.9	16.6	1.1
89F00339	F	1	3	84	0.0	6.0	3.9	1.9	118.7	15.0	1.2
89F00352	F	1	3	102	0.1	5.8	4.2	2.6	149.9	18.4	1.3
89F00369	F	1	3	31	0.1	6.2	3.6	1.4	103.1	17.2	1.3
89F00377	F	1	3	31	0.1	6.2	3.3	1.2	114.8	14.2	1.0
Mean				58.0	0.10	5.86	3.70	1.86	120.68	16.28	1.18
Std Dev				32.9	0.07	0.46	0.35	0.57	17.43	1.69	0.13
SEM				14.7	0.03	0.20	0.16	0.26	7.80	0.76	0.06
89F00337	F	2	3	84	0.1	6.0	3.7	1.7	141.1	15.6	1.0
89F00358	F	2	3	37	0.1	6.9	3.3	0.9	129.0	14.1	1.2
89F00371	F	2	3	50	0.0	6.7	3.3	1.0	122.2	16.5	1.2
89F00389	F	2	3	36	0.1	6.8	3.8	1.3	110.0	15.3	1.0
89F00391	F	2	3	100	0.1	5.6	4.1	2.8	139.3	15.6	0.9
Mean				61.4	0.08	6.40	3.64	1.54	128.32	15.42	1.06
Std Dev				29.0	0.04	0.57	0.34	0.77	12.82	0.86	0.13
SEM				13.0	0.02	0.25	0.15	0.34	5.73	0.39	0.06
89F00348	F	3	3	94	0.0	6.1	3.8	1.6	134.0	13.9	0.9
89F00355	F	3	3	69	0.1	7.0	4.3	1.6	114.6	16.9	1.1
89F00368	F	3	3	199	0.1	7.3	3.4	0.8	133.1	20.3	1.5
89F00370	F	3	3	54	0.0	6.6	3.4	1.1	139.1	18.9	0.9
89F00383	F	3	3	32	0.0	7.4	3.9	1.1	119.3	16.1	1.2
Mean				89.6	0.04	6.88	3.76	1.24	128.02	17.22	1.12
Std Dev				65.2	0.05	0.54	0.38	0.35	10.49	2.48	0.25
SEM				29.2	0.02	0.24	0.17	0.16	4.69	1.11	0.11

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00345	F	4	3	75	0.0	6.9	4.7	2.1	119.3	14.5	1.1
89F00354	F	4	3	116	0.1	6.0	4.5	3.1	154.2	22.5	2.0
89F00374	F	4	3	127	0.1	6.8	4.3	1.8	101.3	20.3	1.4
89F00380	F	4	3	66	0.0	5.4	3.8	2.5	135.3	19.2	1.2
89F00387	F	4	3	107	0.2	6.1	4.4	2.6	144.7	15.4	1.4
Mean				98.2	0.08	6.24	4.34	2.42	130.96	18.38	1.42
Std Dev				26.5	0.08	0.62	0.34	0.50	21.00	3.36	0.35
SEM				11.8	0.04	0.28	0.15	0.22	9.39	1.50	0.16
89F00341	F	5	3	380	0.0	5.4	3.7	2.1	110.6	23.6	1.4
89F00347	F	5	3	77	0.1	6.3	4.5	2.5	141.6	15.8	1.0
89F00360	F	5	3	79	0.0	6.1	3.3	1.2	133.2	12.7	1.0
89F00375	F	5	3	55	0.0	5.6	3.9	2.4	121.2	15.9	1.0
89F00394	F	5	3	146	0.1	6.2	4.4	2.4	152.7	16.8	1.6
Mean				147.4	0.04	5.92	3.96	2.12	131.86	16.96	1.20
Std Dev				134.4	0.05	0.40	0.50	0.54	16.56	4.02	0.28
SEM				60.1	0.02	0.18	0.22	0.24	7.40	1.80	0.13
89F00343	F	6	3	87	0.2	6.4	4.5	2.4	122.5	14.7	1.1
89F00357	F	6	3	48	0.1	5.4	4.1	3.1	138.8	15.4	1.0
89F00362	F	6	3	75	0.2	5.4	3.9	2.8	131.1	20.0	0.5
89F00363	F	6	3	died							
89F00379	F	6	3	67	0.1	6.5	4.4	2.0	114.6	15.0	1.1
Mean				69.3	0.15	5.93	4.23	2.58	126.75	16.28	0.93
Std Dev				16.4	0.06	0.61	0.28	0.48	10.49	2.50	0.29
SEM				8.2	0.03	0.30	0.14	0.24	5.24	1.25	0.14

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00344	F	7	3	85	0.1	6.2	4.1	1.9	132.2	11.8	1.0
89F00353	F	7	3	69	0.1	5.5	4.0	2.6	126.1	19.7	1.0
89F00366	F	7	3	32	0.1	6.3	3.9	1.6	105.4	15.8	0.9
89F00372	F	7	3	85	0.0	6.0	3.9	1.8	119.6	16.2	0.8
89F00390	F	7	3	45	0.1	6.7	4.1	1.5	110.4	13.7	0.9
Mean				63.2	0.08	6.14	4.00	1.88	118.74	15.64	0.92
Std Dev				23.9	0.04	0.44	0.10	0.43	11.00	3.03	0.08
SEM				10.7	0.02	0.20	0.04	0.19	4.92	1.35	0.04
89F00346	F	8	3	42	0.1	6.4	3.8	1.4	133.6	16.1	1.0
89F00359	F	8	3	59	0.0	6.6	3.9	1.4	136.7	15.5	1.0
89F00365	F	8	3	33	0.1	6.6	3.4	1.0	112.5	15.0	1.0
89F00392	F	8	3	43	0.0	7.1	3.6	1.1	100.6	16.4	1.3
89F00393	F	8	3	81	0.0	6.9	3.8	1.2	130.6	16.5	1.0
Mean				51.6	0.04	6.72	3.70	1.22	122.80	15.90	1.06
Std Dev				18.9	0.05	0.28	0.20	0.18	15.57	0.64	0.13
SEM				8.5	0.02	0.12	0.09	0.08	6.96	0.28	0.06
89F00340	F	9	3	26	0.1	6.0	3.3	1.2	134.4	16.2	1.2
89F00349	F	9	3	86	0.1	6.9	3.5	1.1	139.4	14.6	1.0
89F00356	F	9	3	87	0.0	6.6	3.9	1.4	127.8	12.6	1.1
89F00367	F	9	3	40	0.1	7.0	3.3	0.9	112.9	16.3	1.1
89F00384	F	9	3	57	0.1	7.4	3.5	0.9	127.0	14.5	1.3
Mean				59.2	0.08	6.78	3.50	1.10	128.30	14.84	1.14
Std Dev				27.2	0.04	0.52	0.24	0.21	9.99	1.51	0.11
SEM				12.2	0.02	0.23	0.11	0.09	4.47	0.68	0.05

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00350	F	10	3	14.1	4.0	152.1	119	5.1	238.5	2.31
89F00351	F	10	3	14.1	4.5	146.5	111	4.3	923.4	1.70
89F00364	F	10	3	14.4	3.2	146.8	111	4.0	190.2	2.08
89F00373	F	10	3	14.4	3.4	148.4	114	3.6	519.8	1.81
89F00381	F	10	3	12.9	4.9	147.1	117	4.4	483.3	2.13
Mean				13.98	4.00	148.18	114.4	4.28	471.04	2.006
Std Dev				0.62	0.72	2.31	3.6	0.55	291.59	0.248
SEM				0.28	0.32	1.03	1.6	0.25	130.40	0.111

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00338	F	1	3	13.5	4.7	145.7	114	3.8	177.3	1.93
89F00339	F	1	3	14.3	4.4	145.9	110	4.4	558.4	1.96
89F00352	F	1	3	14.7	4.7	144.0	107	4.0	266.4	1.62
89F00369	F	1	3	12.6	4.5	145.7	114	4.1	208.0	1.52
89F00377	F	1	3	12.4	4.2	146.5	114	3.7	483.0	1.78
Mean				13.50	4.50	145.56	111.8	4.00	338.62	1.762
Std Dev				1.01	0.21	0.93	3.2	0.27	171.36	0.191
SEM				0.45	0.09	0.42	1.4	0.12	76.63	0.086
89F00337	F	2	3	13.4	4.6	148.2	109	3.9	221.2	1.68
89F00358	F	2	3	12.8	3.4	143.0	117	4.2	463.2	1.50
89F00371	F	2	3	12.5	3.4	146.0	113	3.9	203.5	1.61
89F00389	F	2	3	12.3	3.8	146.4	115	3.7	494.3	1.81
89F00391	F	2	3	14.6	4.8	143.4	116	5.2	430.3	2.13
Mean				13.12	4.00	145.40	114.0	4.18	362.50	1.746
Std Dev				0.93	0.66	2.18	3.2	0.60	139.06	0.242
SEM				0.41	0.30	0.97	1.4	0.27	62.19	0.108
89F00348	F	3	3	13.4	4.2	146.7	114	3.9	412.6	1.73
89F00355	F	3	3	13.1	4.3	146.1	112	4.3	372.6	1.60
89F00368	F	3	3	14.3	4.7	149.2	107	4.2	215.1	1.84
89F00370	F	3	3	12.6	4.9	145.3	113	4.1	196.7	1.83
89F00383	F	3	3	12.7	4.4	145.3	114	5.1	431.3	1.56
Mean				13.22	4.50	146.52	112.0	4.32	325.66	1.712
Std Dev				0.68	0.29	1.61	2.9	0.46	111.55	0.129
SEM				0.31	0.13	0.72	1.3	0.21	49.89	0.058

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00345	F	4	3	15.1	3.8	153.6	117	4.9	383.6	1.79
89F00354	F	4	3	13.8	6.2	143.8	115	4.4	356.5	2.12
89F00374	F	4	3	15.6	3.8	150.4	109	3.6	186.0	2.21
89F00380	F	4	3	13.9	4.2	145.7	112	3.9	208.9	1.87
89F00387	F	4	3	12.9	4.5	144.6	114	4.0	220.3	2.05
Mean				14.26	4.50	147.62	113.4	4.16	271.06	2.008
Std Dev				1.08	0.99	4.21	3.0	0.50	91.71	0.174
SEM				0.48	0.44	1.88	1.4	0.22	41.01	0.078
89F00341	F	5	3	13.3	4.6	153.1	119	4.5	889.8	1.90
89F00347	F	5	3	14.3	4.9	146.3	112	4.5	520.0	1.91
89F00360	F	5	3	12.3	3.4	144.6	117	4.6	27.5	1.54
89F00375	F	5	3	13.8	4.4	146.8	110	4.0	505.5	1.52
89F00394	F	5	3	13.2	3.3	146.9	114	4.2	201.7	1.72
Mean				13.38	4.12	147.54	114.4	4.36	428.90	1.738
Std Dev				0.75	0.73	3.24	3.6	0.25	331.41	0.168
SEM				0.33	0.32	1.45	1.6	0.11	148.21	0.075
89F00343	F	6	3	14.6	4.4	148.4	109	4.1	525.4	1.67
89F00357	F	6	3	14.0	4.7	145.9	118	4.5	367.7	2.05
89F00362	F	6	3	14.4	3.7	146.9	121	4.7	401.5	1.72
89F00363	F	6	3	died						
89F00379	F	6	3	14.4	4.3	149.0	114	4.2	491.9	1.82
Mean				14.35	4.28	147.55	115.5	4.38	446.63	1.815
Std Dev				0.25	0.42	1.41	5.2	0.28	74.21	0.169
SEM				0.13	0.21	0.71	2.6	0.14	37.10	0.084

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00344	F	7	3	14.3	4.0	149.0	112	3.7	916.5	1.52
89F00353	F	7	3	13.7	3.9	145.8	115	4.7	370.9	1.40
89F00366	F	7	3	13.8	3.3	146.5	111	4.1	357.0	1.95
89F00372	F	7	3	13.3	4.1	147.8	113	4.0	361.3	1.63
89F00390	F	7	3	13.2	3.4	146.7	112	4.0	489.4	1.69
Mean				13.66	3.74	147.16	112.6	4.10	499.02	1.638
Std Dev				0.44	0.36	1.25	1.5	0.37	239.76	0.207
SEM				0.20	0.16	0.56	0.7	0.16	107.22	0.092
89F00346	F	8	3	13.4	3.9	146.1	111	4.0	268.9	1.75
89F00359	F	8	3	14.2	4.7	146.1	110	3.9	449.7	2.03
89F00365	F	8	3	13.0	4.4	145.2	108	4.1	390.9	1.75
89F00392	F	8	3	11.7	3.5	147.5	117	3.9	441.1	1.59
89F00393	F	8	3	13.4	4.6	148.0	115	4.5	319.2	1.87
Mean				13.14	4.22	146.58	112.2	4.08	373.96	1.798
Std Dev				0.92	0.51	1.14	3.7	0.25	78.37	0.163
SEM				0.41	0.23	0.51	1.7	0.11	35.05	0.073
89F00340	F	9	3	12.7	4.0	146.9	115	4.1	415.1	1.64
89F00349	F	9	3	13.0	4.5	145.7	113	4.4	401.4	1.66
89F00356	F	9	3	13.3	3.9	145.0	113	4.3	356.5	1.29
89F00367	F	9	3	13.6	4.3	146.1	117	4.3	163.8	1.65
89F00384	F	9	3	13.2	3.2	144.7	109	3.8	107.1	1.55
Mean				13.16	3.98	145.68	113.4	4.18	288.78	1.558
Std Dev				0.34	0.50	0.88	3.0	0.24	143.05	0.156
SEM				0.15	0.22	0.39	1.3	0.11	63.97	0.070

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00350	F	10	7	19.8	10.2	75.6	34.0	7.8	437.8	0.0	34.1
89F00351	F	10	7	27.7	13.2	61.1	259.6	5.4	1011.3	0.0	40.8
89F00364	F	10	7	24.0	9.5	38.4	43.0	6.8	325.7	0.0	38.6
89F00373	F	10	7	41.7	12.8	57.1	53.1	4.6	2269.3	0.0	54.6
89F00381	F	10	7	20.8	7.2	65.0	40.9	5.1	471.0	0.0	32.0
Mean				26.80	10.58	59.44	86.12	5.94	903.0	0.00	40.02
Std Dev				8.88	2.48	13.63	97.22	1.32	808.5	0.00	8.87
SEM				3.97	1.11	6.09	43.48	0.59	361.6	0.00	3.97



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00338	F	1	7	16.7	16.3	109.1	91.4	3.6	793.3	0.0	26.2
89F00339	F	1	7	32.0	25.4	121.6	157.6	4.8	1026.4	0.0	59.1
89F00352	F	1	7	12.1	17.5	112.2	161.2	6.7	760.4	0.0	35.6
89F00369	F	1	7	21.4	22.6	73.4	52.4	6.5	547.6	0.0	46.6
89F00377	F	1	7	16.9	13.5	199.3	60.8	8.2	368.7	0.0	36.0
Mean				19.82	19.16	123.12	104.68	5.96	699.3	0.00	40.70
Std Dev				7.56	4.77	46.35	52.03	1.79	250.9	0.00	12.57
SEM				3.38	2.13	20.73	23.27	0.80	112.2	0.00	5.62
89F00337	F	2	7	24.1	20.8	229.2	30.6	6.2	199.9	0.0	47.8
89F00358	F	2	7	18.8	17.1	35.1	42.2	2.4	144.6	0.0	42.4
89F00371	F	2	7	11.5	28.3	57.9	138.7	7.2	554.1	0.0	24.7
89F00389	F	2	7	13.9	21.8	44.9	43.0	6.2	366.1	0.0	37.6
89F00391	F	2	7	18.8	19.7	104.6	36.4	5.0	479.6	0.0	30.9
Mean				17.42	21.54	94.34	58.18	5.40	348.8	0.00	36.68
Std Dev				4.90	4.17	79.96	45.29	1.85	175.6	0.00	9.14
SEM				2.19	1.86	35.76	20.25	0.83	78.6	0.00	4.09
89F00348	F	3	7	29.7	27.3	96.4	30.8	5.2	216.8	0.0	41.7
89F00355	F	3	7	23.1	27.0	58.7	25.6	5.9	228.9	0.0	20.7
89F00368	F	3	7	32.2	47.8	52.9	47.5	11.7	365.9	0.0	32.8
89F00370	F	3	7	28.0	22.4	26.9	169.1	8.2	650.1	0.0	36.2
89F00383	F	3	7	25.4	25.4	85.8	36.0	6.5	235.4	0.0	37.7
Mean				27.68	29.98	64.14	61.80	7.50	339.4	0.00	33.82
Std Dev				3.56	10.15	27.63	60.53	2.60	183.9	0.00	8.00
SEM				1.59	4.54	12.35	27.07	1.16	82.2	0.00	3.58

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00345	F	4	7	25.4	11.4	82.0	92.6	5.1	484.2	0.0	53.2
89F00354	F	4	7	25.4	9.2	81.2	82.4	3.2	1038.4	0.0	46.1
89F00374	F	4	7	31.6	14.7	96.0	59.3	4.5	733.6	0.0	53.4
89F00380	F	4	7	16.8	10.1	87.8	110.1	6.6	1035.7	0.0	52.3
89F00387	F	4	7	23.3	16.4	85.1	77.4	5.9	840.1	0.0	49.5
Mean				24.50	12.36	86.42	84.36	5.06	826.4	0.00	50.90
Std Dev				5.31	3.07	5.96	18.78	1.31	231.7	0.00	3.10
SEM				2.37	1.37	2.67	8.40	0.59	103.6	0.00	1.39
89F00341	F	5	7	31.8	13.5	41.5	213.3	4.4	830.2	0.0	76.6
89F00347	F	5	7	31.9	11.3	47.9	55.0	5.1	386.2	0.0	51.4
89F00360	F	5	7	7.5	7.0	89.9	71.2	3.9	628.2	0.0	33.8
89F00375	F	5	7	24.1	8.2	56.0	55.9	3.8	431.5	0.0	51.7
89F00394	F	5	7	21.2	8.5	61.8	58.3	6.2	356.8	0.0	54.5
Mean				23.30	9.70	59.42	90.74	4.68	526.6	0.00	53.60
Std Dev				10.01	2.64	18.71	68.82	0.99	200.1	0.00	15.25
SEM				4.48	1.18	8.37	30.78	0.44	89.5	0.00	6.82
89F00343	F	6	7	22.9	8.9	62.2	54.9	4.3	295.9	0.0	66.0
89F00357	F	6	7	20.1	10.9	99.2	65.8	5.4	701.9	0.0	44.9
89F00362	F	6	7	30.6	14.2	40.5	54.4	2.3	2162.9	0.0	35.4
89F00363	F	6	7	died							
89F00379	F	6	7	29.0	14.6	53.0	97.7	6.4	915.3	0.0	57.2
Mean				25.65	12.15	63.73	68.20	4.60	1019.0	0.00	50.88
Std Dev				4.97	2.73	25.27	20.36	1.76	804.7	0.00	13.47
SEM				2.48	1.36	12.63	10.18	0.88	402.4	0.00	6.73

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00344	F	7	7	22.0	16.7	136.0	33.1	4.3	315.8	0.0	33.3
89F00353	F	7	7	13.4	19.9	88.5	46.0	6.0	205.8	0.0	31.2
89F00366	F	7	7	16.4	16.2	72.0	34.8	6.8	346.0	0.0	49.2
89F00372	F	7	7	18.4	18.1	57.0	94.4	6.0	441.9	0.0	27.0
89F00390	F	7	7	11.5	19.4	62.9	43.2	6.5	247.2	0.0	30.2
Mean				16.34	18.06	83.28	50.30	5.92	311.4	0.00	34.18
Std Dev				4.13	1.62	31.78	25.25	0.97	91.5	0.00	8.70
SEM				1.85	0.72	14.21	11.29	0.43	40.9	0.00	3.89
89F00346	F	8	7	25.3	25.7	83.2	51.3	5.2	569.1	0.0	21.5
89F00359	F	8	7	30.5	25.9	87.3	60.0	4.7	403.5	0.0	21.4
89F00365	F	8	7	17.7	21.5	108.1	55.9	5.2	526.5	0.0	20.6
89F00392	F	8	7	28.1	59.1	72.6	93.7	4.2	838.5	0.0	31.5
89F00393	F	8	7	17.3	18.6	83.2	107.4	3.6	359.4	0.0	20.5
Mean				23.78	30.16	86.88	73.66	4.58	539.4	0.00	23.10
Std Dev				6.02	16.46	13.05	25.21	0.69	188.0	0.00	4.72
SEM				2.69	7.36	5.84	11.27	0.31	84.1	0.00	2.11
89F00340	F	9	7	18.1	27.4	60.4	25.9	4.1	175.6	0.0	21.0
89F00349	F	9	7	19.0	28.6	60.7	25.2	6.2	285.1	0.0	28.1
89F00356	F	9	7	10.2	23.8	63.6	53.5	6.0	306.4	0.0	10.6
89F00367	F	9	7	16.7	33.3	86.9	285.2	6.9	1343.4	0.0	15.0
89F00384	F	9	7	21.4	24.8	53.0	91.5	5.8	525.4	0.0	12.3
Mean				17.08	27.58	66.12	96.26	5.80	527.2	0.00	17.40
Std Dev				4.21	3.74	13.02	109.03	1.04	473.6	0.00	7.17
SEM				1.88	1.67	5.82	48.76	0.46	211.8	0.00	3.21

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00350	F	10	7	56	0.1	7.0	4.5	1.8	118.8	18.6	1.3
89F00351	F	10	7	61	0.1	5.8	4.6	4.0	110.4	20.8	1.1
89F00364	F	10	7	35	0.1	5.8	4.1	2.5	103.6	17.7	1.2
89F00373	F	10	7	98	0.0	5.9	4.5	3.2	110.8	12.8	2.9
89F00381	F	10	7	48	0.1	5.2	4.3	4.7	120.4	13.8	1.4
Mean				59.6	0.08	5.94	4.40	3.24	112.80	16.74	1.58
Std Dev				23.6	0.04	0.65	0.20	1.15	6.86	3.36	0.75
SEM				10.6	0.02	0.29	0.09	0.52	3.07	1.50	0.33

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00338	F	1	7	39	0.1	5.9	3.6	1.5	100.8	21.3	0.9
89F00339	F	1	7	96	0.1	6.6	4.2	1.7	118.5	18.7	1.2
89F00352	F	1	7	50	0.1	7.3	4.2	1.3	175.4	25.6	1.3
89F00369	F	1	7	73	0.0	5.7	3.3	1.4	135.6	15.8	1.7
89F00377	F	1	7	61	0.1	5.5	3.5	1.8	106.0	14.8	1.0
Mean				63.8	0.08	6.20	3.76	1.54	127.26	19.24	1.22
Std Dev				22.0	0.04	0.74	0.42	0.21	30.07	4.37	0.31
SEM				9.8	0.02	0.33	0.19	0.09	13.45	1.96	0.14
89F00337	F	2	7	68	0.0	7.3	3.8	1.1	123.1	22.4	1.0
89F00358	F	2	7	33	0.0	8.4	3.3	0.6	116.1	17.0	1.4
89F00371	F	2	7	34	0.0	7.1	3.2	0.8	135.8	13.3	1.4
89F00389	F	2	7	41	0.1	5.8	3.7	1.8	116.2	12.2	1.0
89F00391	F	2	7	59	0.0	7.5	3.5	0.9	105.7	15.7	1.1
Mean				47.0	0.02	7.22	3.50	1.04	119.38	16.12	1.18
Std Dev				15.7	0.04	0.94	0.25	0.46	11.08	3.99	0.20
SEM				7.0	0.02	0.42	0.11	0.21	4.96	1.78	0.09
89F00348	F	3	7	63	0.0	7.3	3.6	1.0	130.9	9.6	1.0
89F00355	F	3	7	64	0.0	8.3	3.4	0.7	119.4	12.2	1.6
89F00368	F	3	7	118	0.0	7.7	3.4	0.8	116.1	19.1	1.5
89F00370	F	3	7	37	0.0	7.2	3.1	0.8	147.7	19.4	1.2
89F00383	F	3	7	47	0.0	7.4	3.2	0.7	112.4	18.4	1.4
Mean				65.8	0.00	7.58	3.34	0.80	125.30	17.74	1.34
Std Dev				31.3	0.00	0.44	0.19	0.12	14.31	3.13	0.24
SEM				14.0	0.00	0.20	0.09	0.05	6.40	1.40	0.11

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00345	F	4	7	62	0.2	6.5	4.9	3.0	97.5	15.1	1.1
89F00354	F	4	7	192	0.1	6.3	4.7	3.1	118.8	16.3	0.9
89F00374	F	4	7	141	0.1	6.3	4.6	2.7	105.2	17.8	1.4
89F00380	F	4	7	81	0.2	5.1	4.3	6.0	110.7	19.1	1.1
89F00387	F	4	7	149	0.2	5.8	4.7	4.0	117.1	19.0	1.6
Mean				125.0	0.16	6.00	4.64	3.76	109.86	17.46	1.22
Std Dev				53.0	0.05	0.57	0.22	1.34	8.77	1.74	0.28
SEM				23.7	0.02	0.25	0.10	0.60	3.92	0.78	0.12
89F00341	F	5	7	275	0.1	6.0	4.2	2.4	159.0	18.5	1.2
89F00347	F	5	7	65	0.1	6.1	4.1	2.0	126.9	16.2	1.2
89F00360	F	5	7	52	0.1	6.1	4.4	2.6	107.9	13.2	1.0
89F00375	F	5	7	62	0.1	4.8	4.0	5.0	113.5	14.5	0.9
89F00394	F	5	7	100	0.1	5.8	4.4	3.0	141.0	14.5	1.3
Mean				110.8	0.10	5.76	4.22	3.00	129.66	15.38	1.12
Std Dev				93.6	0.00	0.55	0.18	1.17	20.81	2.04	0.16
SEM				41.8	0.00	0.25	0.08	0.53	9.31	0.91	0.07
89F00343	F	6	7	105	0.1	6.7	4.7	2.3	135.2	16.0	1.0
89F00357	F	6	7	49	0.0	5.7	4.3	3.0	128.3	10.7	1.1
89F00362	F	6	7	131	0.1	5.9	3.9	2.0	98.5	14.1	2.1
89F00363	F	6	7	died							
89F00379	F	6	7	81	0.0	5.5	4.3	3.5	136.1	14.0	1.7
Mean				91.5	0.05	5.95	4.30	2.70	124.53	13.70	1.48
Std Dev				34.9	0.06	0.53	0.33	0.68	17.70	2.20	0.52
SEM				17.5	0.03	0.26	0.16	0.34	8.85	1.10	0.26

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00344	F	7	7	102	0.2	7.5	4.5	1.5	111.2	14.6	1.2
89F00353	F	7	7	63	0.0	7.5	4.1	1.2	112.7	21.2	1.3
89F00366	F	7	7	35	0.0	6.4	3.8	1.4	119.0	15.2	1.0
89F00372	F	7	7	62	0.1	5.3	3.7	2.2	123.3	14.6	0.6
89F00390	F	7	7	36	0.1	5.9	3.6	1.6	115.5	10.7	1.1
Mean				59.6	0.08	6.52	3.94	1.58	116.34	15.26	1.04
Std Dev				27.3	0.08	0.98	0.36	0.38	4.90	3.77	0.27
SEM				12.2	0.04	0.44	0.16	0.17	2.19	1.69	0.12
89F00346	F	8	7	34	0.0	7.6	3.7	0.9	125.3	17.6	1.1
89F00359	F	8	7	44	0.1	7.4	3.5	0.9	95.6	20.1	0.9
89F00365	F	8	7	54	0.0	6.6	3.3	1.0	108.2	17.1	0.9
89F00392	F	8	7	21	0.1	6.9	2.8	0.7	114.1	11.8	1.0
89F00393	F	8	7	79	0.1	7.4	3.8	1.1	129.7	18.8	1.0
Mean				46.4	0.06	7.18	3.42	0.92	114.58	17.08	0.98
Std Dev				21.9	0.05	0.41	0.40	0.15	13.64	3.17	0.08
SEM				9.8	0.02	0.19	0.18	0.07	6.10	1.42	0.04
89F00340	F	9	7	40	0.0	8.5	3.2	0.6	124.5	20.9	1.2
89F00349	F	9	7	69	0.0	8.9	3.3	0.6	120.0	19.2	1.1
89F00356	F	9	7	50	0.0	8.3	3.7	0.8	125.7	13.2	1.1
89F00367	F	9	7	34	0.1	7.3	3.3	0.8	136.9	20.0	1.1
89F00384	F	9	7	55	0.0	7.5	3.5	0.9	128.3	14.4	1.4
Mean				49.6	0.02	8.10	3.40	0.74	127.08	17.54	1.18
Std Dev				13.6	0.04	0.68	0.20	0.13	6.26	3.49	0.13
SEM				6.1	0.02	0.30	0.09	0.06	2.80	1.56	0.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00350	F	10	7	14.9	4.1	150.2	118	3.9	502.4	2.28
89F00351	F	10	7	14.9	4.2	145.8	109	3.7	143.8	1.99
89F00364	F	10	7	13.4	3.9	148.2	109	3.8	318.2	1.98
89F00373	F	10	7	14.3	3.8	149.2	110	4.0	580.6	1.86
89F00381	F	10	7	13.1	5.4	146.3	115	4.0	352.7	2.25
Mean				14.12	4.28	147.94	112.2	3.88	379.54	2.072
Std Dev				0.84	0.65	1.87	4.1	0.13	169.98	0.184
SEM				0.37	0.29	0.84	1.8	0.06	76.02	0.082



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00338	F	1	7	13.6	4.7	144.8	117	3.9	128.7	1.70
89F00339	F	1	7	14.7	4.3	145.3	110	3.9	129.0	1.95
89F00352	F	1	7	13.9	5.4	143.4	110	4.4	120.7	1.51
89F00369	F	1	7	12.1	4.0	145.0	108	4.1	140.1	1.36
89F00377	F	1	7	12.3	4.1	145.9	114	4.0	190.0	1.61
Mean				13.32	4.50	144.88	111.8	4.06	141.70	1.626
Std Dev				1.10	0.57	0.93	3.6	0.21	27.87	0.221
SEM				0.49	0.25	0.41	1.6	0.09	12.46	0.099
89F00337	F	2	7	13.8	4.9	145.0	111	3.4	211.2	2.03
89F00358	F	2	7	12.5	3.4	143.8	109	4.7	193.0	1.38
89F00371	F	2	7	11.2	3.7	144.6	112	4.1	208.5	1.24
89F00389	F	2	7	13.0	4.5	144.8	112	4.2	197.7	1.61
89F00391	F	2	7	12.7	3.8	144.6	107	4.1	208.4	1.75
Mean				12.64	4.02	144.56	110.2	4.10	203.76	1.602
Std Dev				0.94	0.59	0.46	2.2	0.46	7.93	0.310
SEM				0.42	0.26	0.20	1.0	0.21	3.55	0.139
89F00348	F	3	7	13.2	4.5	146.4	113	4.2	193.8	1.74
89F00355	F	3	7	12.8	3.4	145.4	114	4.6	187.7	1.30
89F00368	F	3	7	12.8	4.7	146.2	105	4.3	140.2	1.45
89F00370	F	3	7	11.5	5.2	145.0	106	3.8	179.8	1.82
89F00383	F	3	7	11.5	4.7	144.5	113	4.0	180.1	1.36
Mean				12.36	4.50	145.50	110.2	4.18	176.32	1.534
Std Dev				0.80	0.67	0.80	4.3	0.30	21.01	0.233
SEM				0.36	0.30	0.36	1.9	0.14	9.40	0.104

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00345	F	4	7	15.8	3.8	150.1	118	4.3	132.4	2.08
89F00354	F	4	7	14.2	4.5	146.3	108	3.9	262.4	1.87
89F00374	F	4	7	14.5	4.4	150.2	110	3.8	436.8	1.92
89F00380	F	4	7	14.0	4.3	147.5	113	4.3	209.7	1.84
89F00387	F	4	7	15.0	4.6	147.5	111	4.7	295.0	1.97
Mean				14.70	4.32	148.32	112.0	4.20	267.26	1.936
Std Dev				0.72	0.31	1.74	3.8	0.36	112.96	0.094
SEM				0.32	0.14	0.78	1.7	0.16	50.52	0.042
89F00341	F	5	7	15.7	5.1	146.9	109	4.6	200.3	1.84
89F00347	F	5	7	15.2	4.0	148.4	115	4.5	286.6	2.16
89F00360	F	5	7	14.4	3.8	146.7	106	4.4	169.2	1.93
89F00375	F	5	7	13.3	5.5	145.3	109	4.1	255.1	1.58
89F00394	F	5	7	14.3	4.1	145.4	110	3.9	126.7	1.83
Mean				14.58	4.50	146.54	109.8	4.30	207.58	1.868
Std Dev				0.92	0.75	1.27	3.3	0.29	64.36	0.209
SEM				0.41	0.34	0.57	1.5	0.13	28.78	0.093
89F00343	F	6	7	10.5	5.0	147.0	110	4.3	536.6	1.81
89F00357	F	6	7	15.0	4.6	145.3	103	3.8	538.3	2.07
89F00362	F	6	7	14.3	3.3	147.6	106	4.6	284.8	1.87
89F00363	F	6	7	died						
89F00379	F	6	7	12.2	4.4	146.1	109	3.5	162.3	1.29
Mean				13.00	4.33	146.50	107.0	4.05	380.50	1.760
Std Dev				2.05	0.73	1.01	3.2	0.49	188.01	0.332
SEM				1.02	0.36	0.50	1.6	0.25	94.00	0.166

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00344	F	7	7	15.8	4.0	147.6	112	4.4	411.9	1.94
89F00353	F	7	7	13.4	4.1	146.0	111	4.0	346.6	1.76
89F00366	F	7	7	12.4	4.4	145.3	109	3.7	314.9	1.90
89F00372	F	7	7	11.5	3.7	144.5	111	4.0	190.0	1.41
89F00390	F	7	7	12.4	3.6	146.2	113	3.6	169.7	1.71
Mean				13.10	3.96	145.92	111.2	3.94	286.62	1.744
Std Dev				1.65	0.32	1.15	1.5	0.31	103.80	0.210
SEM				0.74	0.14	0.52	0.7	0.14	46.42	0.094
89F00346	F	8	7	13.5	4.0	144.5	107	3.7	200.1	2.14
89F00359	F	8	7	12.5	3.5	147.8	110	3.3	157.7	1.58
89F00365	F	8	7	12.8	4.0	145.7	108	4.6	311.4	1.61
89F00392	F	8	7	11.1	4.3	145.4	116	3.6	80.0	1.35
89F00393	F	8	7	13.3	5.0	146.0	108	4.6	111.8	1.75
Mean				12.64	4.16	145.88	109.8	3.96	172.20	1.686
Std Dev				0.95	0.55	1.21	3.6	0.60	90.16	0.292
SEM				0.42	0.25	0.54	1.6	0.27	40.32	0.130
89F00340	F	9	7	14.2	4.6	146.7	116	4.2	125.9	1.66
89F00349	F	9	7	13.4	4.6	145.1	111	4.5	159.1	1.60
89F00356	F	9	7	13.1	3.7	144.0	112	3.7	192.8	1.58
89F00367	F	9	7	12.0	5.5	144.3	109	4.3	197.0	1.59
89F00384	F	9	7	13.7	4.2	147.0	110	4.8	88.4	1.64
Mean				13.28	4.52	145.42	111.6	4.30	152.64	1.614
Std Dev				0.82	0.66	1.37	2.7	0.41	46.00	0.034
SEM				0.37	0.30	0.61	1.2	0.18	20.57	0.015

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	D=y	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00350	F	10	14	15.6	12.5	66.1	154.3	6.2	799.3	0.0	30.1
89F00351	F	10	14	30.6	12.0	55.0	171.1	3.9	854.6	0.0	34.3
89F00364	F	10	14	43.7	24.3	37.5	149.6	5.2	1145.8	0.0	40.4
89F00373	F	10	14	28.8	23.1	41.7	502.6	3.2	6415.2	0.0	74.2
89F00381	F	10	14	34.0	21.4	69.4	347.6	2.6	1298.6	0.0	43.6
Mean				30.54	18.66	53.94	265.04	4.22	2102.7	0.00	44.52
Std Dev				10.14	5.94	14.21	156.26	1.47	2419.5	0.00	17.40
SEM				4.54	2.66	6.36	69.88	0.66	1082.1	0.00	7.78

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00338	F	1	14	20.0	17.3	121.3	38.9	3.7	284.6	0.0	20.5
89F00339	F	1	14	23.7	19.0	114.5	74.1	3.7	1051.0	0.0	33.5
89F00352	F	1	14	12.7	21.4	105.5	202.6	3.2	652.3	0.0	27.1
89F00369	F	1	14	19.6	17.6	81.0	100.5	4.1	397.2	0.0	34.5
89F00377	F	1	14	16.0	21.2	185.1	69.6	6.6	288.0	0.0	26.7
Mean				18.40	19.30	121.68	97.14	4.26	534.6	0.00	28.46
Std Dev				4.19	1.94	39.11	62.88	1.35	325.1	0.00	5.71
SEM				1.88	0.87	17.49	28.12	0.60	145.4	0.00	2.55
89F00337	F	2	14	19.1	17.1	205.1	55.1	3.1	226.5	0.0	31.1
89F00358	F	2	14	20.3	20.6	37.1	22.0	3.2	182.0	0.0	25.9
89F00371	F	2	14	38.5	91.2	29.9	128.7	3.2	500.5	0.0	33.4
89F00389	F	2	14	15.0	58.1	24.6	738.2	3.2	5854.8	0.0	35.9
89F00391	F	2	14	16.1	20.0	124.2	11.8	7.7	552.2	0.0	20.7
Mean				21.80	41.40	84.18	191.16	4.08	1463.2	0.00	29.40
Std Dev				9.58	32.56	78.96	309.21	2.02	2460.4	0.00	6.10
SEM				4.28	14.56	35.31	138.28	0.91	1100.3	0.00	2.73
89F00348	F	3	14	22.1	22.4	112.8	31.7	5.0	254.1	0.0	25.2
89F00355	F	3	14	12.6	24.8	46.4	101.6	3.0	460.0	0.0	14.7
89F00368	F	3	14	28.9	27.0	37.6	87.2	5.4	413.3	0.0	23.8
89F00370	F	3	14	35.5	38.3	15.7	298.1	1.3	776.1	0.0	33.8
89F00383	F	3	14	28.7	20.6	41.8	40.2	4.6	106.9	0.0	41.0
Mean				25.56	26.62	50.86	111.76	3.86	402.1	0.00	27.70
Std Dev				8.66	6.96	36.57	108.35	1.70	251.2	0.00	10.06
SEM				3.87	3.11	16.36	48.46	0.76	112.3	0.00	4.50

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00345	F	4	14	19.3	9.3	75.2	97.6	5.0	507.8	0.0	34.5
89F00354	F	4	14	21.4	20.7	89.6	149.7	3.0	2984.3	0.0	39.4
89F00374	F	4	14	38.0	14.7	88.2	75.1	5.2	384.6	0.0	58.9
89F00380	F	4	14	19.6	15.3	70.2	201.9	6.7	1121.0	0.0	71.9
89F00387	F	4	14	23.1	14.6	43.7	158.9	7.1	1309.9	0.0	89.0
Mean				24.28	14.92	73.38	136.64	5.40	1261.5	0.00	58.74
Std Dev				7.82	4.04	18.55	50.59	1.62	1040.1	0.00	22.64
SEM				3.50	1.81	8.30	22.62	0.73	465.1	0.00	10.13
89F00341	F	5	14	14.1	12.4	45.1	244.4	3.9	1926.5	0.0	60.8
89F00347	F	5	14	24.0	11.0	45.7	54.3	4.9	310.4	0.0	38.0
89F00360	F	5	14	13.4	9.4	77.1	63.4	1.1	1474.1	0.0	37.7
89F00375	F	5	14	23.6	9.1	44.1	82.1	5.6	365.1	0.0	85.5
89F00394	F	5	14	31.8	19.8	97.3	293.9	9.7	1335.0	0.0	62.8
Mean				21.38	12.34	61.86	147.62	5.04	1082.2	0.00	56.96
Std Dev				7.70	4.38	24.22	112.76	3.12	714.2	0.00	19.96
SEM				3.44	1.96	10.83	50.43	1.39	319.4	0.00	8.93
89F00343	F	6	14	18.0	7.2	56.8	72.8	4.2	340.8	0.0	45.3
89F00357	F	6	14	18.9	9.3	82.2	78.4	3.9	876.1	0.0	39.7
89F00362	F	6	14	24.7	7.5	64.4	58.7	3.7	702.2	0.0	29.9
89F00363	F	6	14	died							
89F00379	F	6	14	24.4	30.8	35.9	134.1	6.5	829.2	0.0	50.4
Mean				21.50	13.70	59.83	86.00	4.58	687.1	0.00	41.33
Std Dev				3.54	11.44	19.18	33.12	1.30	242.3	0.00	8.78
SEM				1.77	5.72	9.59	16.56	0.65	121.1	0.00	4.39

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	ALT	AST	ALK	LDH	GGT	CK	BILI	CHOL
89F00344	F	7	14	15.4	15.0	114.2	39.9	3.0	216.3	0.0	15.1
89F00353	F	7	14	15.2	25.0	84.4	47.2	3.7	204.5	0.0	21.6
89F00366	F	7	14	22.3	23.2	40.6	68.5	3.2	554.5	0.0	60.5
89F00372	F	7	14	25.7	29.0	55.0	238.4	4.8	1166.4	0.0	28.8
89F00390	F	7	14	11.8	18.6	53.6	29.0	5.3	141.9	0.0	19.0
Mean				18.08	22.16	69.56	84.60	4.00	456.7	0.00	29.00
Std Dev				5.72	5.47	29.66	87.18	1.01	428.3	0.00	18.30
SEM				2.56	2.45	13.26	38.99	0.45	191.5	0.00	8.19
89F00346	F	8	14	20.8	25.1	81.5	75.7	4.5	515.7	0.0	9.9
89F00359	F	8	14	16.1	26.5	92.3	162.2	4.1	489.0	0.0	19.8
89F00365	F	8	14	20.5	28.1	84.7	235.6	6.5	891.4	0.0	21.4
89F00392	F	8	14	41.2	87.1	79.7	31.3	6.6	547.7	0.0	30.5
89F00393	F	8	14	15.1	17.6	91.9	35.5	6.7	180.2	0.0	12.1
Mean				22.74	36.88	86.02	108.06	5.68	525.4	0.00	18.74
Std Dev				10.63	28.36	5.83	88.60	1.27	253.6	0.00	8.20
SEM				4.75	12.68	2.61	39.62	0.57	113.4	0.00	3.67
89F00340	F	9	14	14.9	24.1	68.2	32.4	3.2	172.3	0.0	11.5
89F00349	F	9	14	14.1	25.1	50.6	34.3	4.5	302.8	0.0	15.3
89F00356	F	9	14	8.5	20.8	62.0	35.3	4.2	247.5	0.0	6.7
89F00367	F	9	14	16.3	29.7	83.7	207.7	4.8	883.0	0.0	12.7
89F00384	F	9	14	27.5	30.7	29.2	154.7	7.2	1172.5	0.0	25.5
Mean				16.26	26.08	58.74	92.88	4.78	555.6	0.00	14.34
Std Dev				6.95	4.10	20.38	82.78	1.48	445.4	0.00	6.97
SEM				3.11	1.83	9.12	37.02	0.66	199.2	0.00	3.12

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00350	F	10	14	109	0.0	6.0	4.0	2.0	124.9	20.9	1.2
89F00351	F	10	14	70	0.0	5.1	4.3	4.9	99.0	20.4	0.9
89F00364	F	10	14	39	0.1	6.3	4.5	2.6	114.5	21.2	1.2
89F00373	F	10	14	50	0.2	5.7	4.5	3.7	135.0	17.7	1.2
89F00381	F	10	14	81	0.2	6.3	5.7	8.6	145.8	28.7	1.4
Mean				69.8	0.10	5.88	4.60	4.36	123.84	21.78	1.18
Std Dev				27.4	0.10	0.50	0.65	2.62	18.11	4.11	0.18
SEM				12.3	0.04	0.22	0.29	1.17	8.10	1.84	0.08



Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00338	F	1	14	35	0.0	6.6	3.1	0.9	120.5	18.4	0.9
89F00339	F	1	14	52	0.1	7.0	3.5	1.0	127.0	22.8	1.1
89F00352	F	1	14	44	0.1	6.3	3.9	1.6	137.5	21.6	1.2
89F00369	F	1	14	22	0.1	6.0	3.5	1.3	124.0	23.3	1.1
89F00377	F	1	14	23	0.1	6.3	3.2	1.1	116.3	17.8	1.0
Mean				35.2	0.08	6.44	3.44	1.18	125.06	20.78	1.06
Std Dev				13.1	0.04	0.38	0.31	0.28	8.02	2.53	0.11
SEM				5.8	0.02	0.17	0.14	0.12	3.59	1.13	0.05
89F00337	F	2	14	45	0.0	7.5	3.1	0.7	133.7	21.9	0.9
89F00358	F	2	14	63	0.0	7.5	3.1	0.7	119.3	19.4	1.2
89F00371	F	2	14	47	0.0	7.9	3.0	0.6	218.5	60.1	1.9
89F00389	F	2	14	74	0.1	6.9	3.1	0.8	133.4	16.3	0.7
89F00391	F	2	14	61	0.0	7.0	3.5	1.0	119.1	17.0	1.2
Mean				58.0	0.02	7.36	3.16	0.76	144.80	26.94	1.18
Std Dev				12.0	0.04	0.41	0.19	0.15	41.82	18.67	0.45
SEM				5.4	0.02	0.18	0.09	0.07	18.70	8.35	0.20
89F00348	F	3	14	48	0.0	8.3	3.5	0.7	128.1	18.7	1.0
89F00355	F	3	14	216	0.0	7.8	3.1	0.6	120.1	16.5	1.2
89F00368	F	3	14	40	0.1	8.3	3.7	0.8	150.8	21.2	1.3
89F00370	F	3	14	20	0.1	8.4	3.7	0.8	122.9	21.2	1.0
89F00383	F	3	14	25	0.4	7.5	2.7	0.6	136.6	22.3	1.2
Mean				69.8	0.12	8.06	3.34	0.70	131.70	19.98	1.14
Std Dev				82.5	0.16	0.39	0.43	0.10	12.39	2.35	0.13
SEM				36.9	0.07	0.17	0.19	0.04	5.54	1.05	0.06

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TRIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00345	F	4	14	53	0.0	5.9	4.7	4.0	114.5	12.7	1.0
89F00354	F	4	14	84	0.1	5.7	4.7	4.7	142.2	19.9	1.0
89F00374	F	4	14	68	0.1	6.7	5.2	3.3	140.2	17.5	1.3
89F00380	F	4	14	50	1.2	5.6	4.0	2.5	175.1	14.1	1.1
89F00387	F	4	14	54	0.2	6.1	4.1	2.0	116.9	17.6	1.4
Mean				61.8	0.32	6.00	4.54	3.30	137.78	16.36	1.16
Std Dev				14.2	0.50	0.44	0.49	1.09	24.48	2.91	0.18
SEM				6.4	0.22	0.19	0.22	0.49	10.95	1.30	0.08
89F00341	F	5	14	223	0.1	5.8	4.4	3.2	117.0	21.7	1.1
89F00347	F	5	14	71	0.1	6.1	4.2	2.2	122.5	15.8	1.1
89F00360	F	5	14	82	0.0	5.3	4.3	4.3	54.8	18.9	1.0
89F00375	F	5	14	40	0.1	5.3	4.4	4.8	142.1	18.9	1.2
89F00394	F	5	14	122	0.1	6.3	4.7	3.0	144.5	19.2	1.1
Mean				107.6	0.08	5.76	4.40	3.50	116.18	18.90	1.10
Std Dev				70.9	0.04	0.46	0.19	1.04	36.34	2.09	0.07
SEM				31.7	0.02	0.20	0.08	0.47	16.25	0.94	0.03
89F00343	F	6	14	89	0.0	6.0	4.4	2.7	122.4	14.3	0.6
89F00357	F	6	14	60	0.1	5.1	4.4	6.1	138.7	12.7	1.1
89F00362	F	6	14	57	0.1	5.7	4.7	4.8	120.5	18.3	1.2
89F00363	F	6	14	died							
89F00379	F	6	14	182	0.1	5.4	4.0	2.9	128.5	24.2	1.9
Mean				97.0	0.08	5.55	4.38	4.13	127.53	17.38	1.20
Std Dev				58.5	0.05	0.39	0.29	1.62	8.19	5.12	0.54
SEM				29.2	0.03	0.19	0.14	0.81	4.10	2.56	0.27

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	TKIG	URIC	TP	ALB	A-G	GLU	BUN	CR
89F00344	F	7	14	38	0.0	6.8	3.8	1.3	124.5	11.1	1.0
89F00353	F	7	14	50	0.1	7.2	3.5	1.0	123.4	19.2	1.1
89F00366	F	7	14	70	0.1	6.4	3.7	1.3	130.2	14.9	1.1
89F00372	F	7	14	39	0.1	6.3	3.8	1.5	133.5	18.9	0.7
89F00390	F	7	14	54	0.0	6.9	3.8	1.2	125.7	14.8	0.9
Mean				50.2	0.06	6.72	3.72	1.26	127.54	15.78	0.96
Std Dev				13.0	0.05	0.37	0.13	0.18	4.19	3.36	0.17
SEM				5.8	0.02	0.17	0.06	0.08	1.87	1.50	0.07
89F00346	F	8	14	24	0.0	8.4	2.9	0.5	136.9	19.5	1.0
89F00359	F	8	14	40	0.1	7.7	3.6	0.9	137.2	14.4	0.9
89F00365	F	8	14	40	0.1	8.3	3.4	0.7	133.0	16.5	0.9
89F00392	F	8	14	20	0.0	8.2	2.9	0.5	142.3	14.4	1.4
89F00393	F	8	14	39	0.0	7.7	3.4	0.8	139.2	20.3	1.1
Mean				32.6	0.04	8.06	3.24	0.68	137.72	17.02	1.06
Std Dev				9.8	0.05	0.34	0.32	0.18	3.41	2.78	0.21
SEM				4.4	0.02	0.15	0.14	0.08	1.52	1.24	0.09
89F00340	F	9	14	22	0.0	9.7	3.0	0.4	121.6	20.1	1.1
89F00349	F	9	14	154	0.0	8.4	2.9	0.5	139.9	17.7	1.0
89F00356	F	9	14	39	0.0	7.7	3.1	0.7	119.3	14.8	0.9
89F00367	F	9	14	19	0.0	8.0	3.4	0.7	146.1	21.9	1.1
89F00384	F	9	14	48	0.0	7.8	2.8	0.6	173.4	31.6	1.5
Mean				56.4	0.00	8.32	3.04	0.58	140.06	21.22	1.12
Std Dev				55.9	0.00	0.82	0.23	0.13	21.91	6.38	0.23
SEM				25.0	0.00	0.37	0.10	0.06	9.80	2.86	0.10

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00350	F	10	14	13.0	4.4	148.2	111	4.0	215.8	2.00
89F00351	F	10	14	14.1	3.7	146.7	110	4.0	150.6	1.74
89F00364	F	10	14	14.4	3.8	147.8	112	4.5	101.3	1.83
89F00373	F	10	14	12.9	4.4	145.3	112	4.3	45.4	1.71
89F00381	F	10	14	16.0	7.1	155.4	116	6.5	115.5	2.73
Mean				14.08	4.68	148.68	112.2	4.66	125.72	2.002
Std Dev				1.26	1.39	3.92	2.3	1.05	63.02	0.422
SEM				0.56	0.62	1.75	1.0	0.47	28.18	0.189

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00338	F	1	14	12.0	3.8	145.6	110	3.9	257.8	1.39
89F00339	F	1	14	12.6	4.1	144.1	108	3.9	214.3	1.58
89F00352	F	1	14	13.0	5.0	143.1	111	4.4	151.7	1.59
89F00369	F	1	14	12.9	5.2	143.4	108	4.2	80.3	1.59
89F00377	F	1	14	11.5	3.8	144.9	113	3.7	112.0	1.60
Mean				12.40	4.38	144.42	110.0	4.02	163.22	1.550
Std Dev				0.64	0.67	1.40	2.1	0.28	72.78	0.090
SEM				0.28	0.30	0.63	0.9	0.12	32.55	0.040
89F00337	F	2	14	11.9	4.2	145.8	108	3.8	150.2	1.54
89F00358	F	2	14	11.7	4.2	142.2	112	4.5	183.0	1.31
89F00371	F	2	14	11.6	5.5	157.5	124	3.6	24.4	1.20
89F00389	F	2	14	11.3	4.1	142.8	115	4.2	183.1	1.49
89F00391	F	2	14	12.6	3.5	144.0	113	4.5	172.8	1.57
Mean				11.82	4.30	146.46	114.4	4.12	142.70	1.422
Std Dev				0.49	0.73	6.32	5.9	0.41	67.48	0.160
SEM				0.22	0.33	2.83	2.7	0.18	30.18	0.072
89F00348	F	3	14	11.9	4.2	146.2	110	4.3	161.0	1.65
89F00355	F	3	14	12.4	4.0	142.3	111	4.9	182.4	1.22
89F00368	F	3	14	12.3	5.3	147.1	110	4.8	88.0	1.47
89F00370	F	3	14	12.1	6.0	145.8	109	6.1	153.5	1.98
89F00383	F	3	14	11.0	4.0	144.2	117	4.2	298.3	0.90
Mean				11.94	4.70	145.12	111.4	4.86	176.64	1.444
Std Dev				0.56	0.91	1.89	3.2	0.76	76.60	0.411
SEM				0.25	0.40	0.85	1.4	0.34	34.26	0.184

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00345	F	4	14	12.5	3.9	146.6	113	4.2	296.5	1.89
89F00354	F	4	14	13.2	6.0	147.2	114	4.1	205.8	2.14
89F00374	F	4	14	13.9	4.8	148.5	108	3.9	0.3*	2.07
89F00380	F	4	14	14.5	5.9	152.0	117	7.0	30.0	2.59
89F00387	F	4	14	13.1	4.2	145.6	111	4.0	46.4	1.62
Mean				13.44	4.96	147.98	112.6	4.64	144.68	2.062
Std Dev				0.77	0.96	2.48	3.4	1.32	128.58	0.357
SEM				0.35	0.43	1.11	1.5	0.59	64.29	0.160
89F00341	F	5	14	13.5	4.6	144.2	106	4.8	164.3	1.70
89F00347	F	5	14	12.2	4.6	144.6	110	4.5	379.4	1.90
89F00360	F	5	14	13.8	4.6	144.1	105	4.4	303.2	1.76
89F00375	F	5	14	13.1	6.0	144.6	105	4.4	112.5	1.53
89F00394	F	5	14	14.2	6.3	146.6	108	4.8	197.8	2.28
Mean				13.36	5.22	144.82	106.8	4.58	231.44	1.834
Std Dev				0.76	0.86	1.02	2.2	0.20	108.20	0.282
SEM				0.34	0.38	0.46	1.0	0.09	48.39	0.126
89F00343	F	6	14	12.6	4.4	145.7	109	4.0	324.4	1.67
89F00357	F	6	14	13.1	5.2	144.4	113	4.2	202.5	1.78
89F00362	F	6	14	13.9	5.4	146.5	114	5.1	288.8	2.04
89F00363	F	6	14	died						
89F00379	F	6	14	12.0	5.0	148.0	117	2.6	41.2	1.01
Mean				12.90	5.00	146.15	113.3	3.98	214.23	1.625
Std Dev				0.80	0.43	1.51	3.3	1.03	126.19	0.438
SEM				0.40	0.22	0.75	1.7	0.52	63.10	0.219

\* Value is considered to be an outlier and is not included in the group mean or statistical analysis.

Appendix G (cont.): SERUM CHEMISTRY

Animal Number	Sex	Group	Day	CAL	PHOS	NA	CL	K	IRON	MAG
89F00344	F	7	14	11.7	3.6	145.1	109	4.0	377.3	1.70
89F00353	F	7	14	12.1	4.7	145.4	113	4.3	258.5	1.45
89F00366	F	7	14	12.5	2.8	145.8	112	3.7	78.9	1.54
89F00372	F	7	14	12.1	3.6	144.6	110	4.2	146.4	1.48
89F00390	F	7	14	13.2	3.3	144.4	109	3.4	384.7	1.43
Mean				12.32	3.60	145.06	110.6	3.92	249.16	1.520
Std Dev				0.57	0.70	0.57	1.8	0.37	136.41	0.109
SEM				0.25	0.31	0.26	0.8	0.17	61.00	0.049
89F00346	F	8	14	11.3	3.1	144.5	112	4.0	107.4	1.61
89F00359	F	8	14	12.3	3.7	144.7	111	4.4	141.9	1.72
89F00365	F	8	14	12.3	5.2	143.6	107	4.8	72.7	1.61
89F00392	F	8	14	10.9	3.4	146.0	113	3.5	157.0	1.08
89F00393	F	8	14	12.5	4.7	145.3	112	4.3	62.1	1.61
Mean				11.86	4.02	144.82	111.0	4.20	108.22	1.526
Std Dev				0.71	0.89	0.90	2.3	0.48	41.54	0.254
SEM				0.32	0.40	0.40	1.0	0.22	18.58	0.114
89F00340	F	9	14	11.3	3.2	146.2	113	4.6	194.2	1.43
89F00349	F	9	14	11.5	4.2	144.5	104	4.7	110.0	1.59
89F00356	F	9	14	11.9	3.9	144.8	116	3.8	97.8	1.34
89F00367	F	9	14	12.3	6.0	142.3	111	4.3	171.0	1.46
89F00384	F	9	14	10.7	3.9	144.5	113	3.5	44.8	1.31
Mean				11.54	4.24	144.46	111.4	4.18	123.56	1.426
Std Dev				0.61	1.05	1.40	4.5	0.52	59.77	0.111
SEM				0.27	0.47	0.62	2.0	0.23	26.73	0.049

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## Appendix II: HEMATOLOGY

## List of Hematology Abbreviations/Units

RBC	Erythrocytes ( $\times 10^6/\mu\text{l}$ )
HGB	Hemoglobin (g/dl)
HCT	Hematocrit (%)
MCV	Mean Corpuscular Volume (femtoliters)
MCH	Mean Corpuscular Hemoglobin (picograms)
MCHC	Mean Corpuscular Hemoglobin Concentration (g/dl)
PLT	Platelets ( $\times 10^3/\mu\text{l}$ )
RET	Reticulocytes (%)
NRBC	Nucleated Red Blood Cell (#/100 WBC)
WBC	Total Leukocyte Count ( $\times 10^3/\mu\text{l}$ )
HET	Heterophils (%)
BAN	Immature Neutrophils (%)
EOS	Eosinophils (%)
BAS	Basophils (%)
LYM	Lymphocytes (%)
MON	Monocytes (%)
ATL	Atypical Lymphocytes (%)
PT	Prothrombin Time (seconds)
APPT	Activated Partial Thromboplastin Time (seconds)
NT	Not Taken
TNTC	Designates PT or APTT value which exceeded 150 seconds. Such values were dropped from PT data. For APTT data, the value was changed to 150 to facilitate calculations of means, standard deviations, and standard errors of the means.

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00124	M	10	-7	5.53	12.1	37.1	67.1	21.9	32.6	389	2.9	0
89F00136	M	10	-7	6.47	14.4	43.9	67.9	22.3	32.8	426	4.0	2
89F00142	M	10	-7	6.08	13.4	40.0	65.8	22.0	33.5	367	3.2	0
89F00168	M	10	-7	6.68	13.9	43.2	64.7	20.8	32.2	258	5.3	0
89F00175	M	10	-7	6.07	14.6	43.7	72.0	24.1	33.4	277	4.6	0
Mean				6.166	13.68	41.58	67.50	22.22	32.90	343.4	4.00	0.4
Std Dev				0.441	1.00	2.96	2.80	1.19	0.55	72.7	0.99	0.9
SEM				0.197	0.45	1.32	1.25	0.53	0.24	32.5	0.44	0.4

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00126	M	1	-7	5.98	13.0	39.9	66.8	21.7	32.6	300	4.1	0
89F00130	M	1	-7	5.83	12.4	38.3	65.7	21.3	32.4	555	5.0	0
89F00140	M	1	-7	5.40	12.4	38.4	71.2	23.0	32.3	350	3.6	1
89F00155	M	1	-7	7.16	15.0	45.3	63.3	20.9	33.1	397	4.0	0
89F00166	M	1	-7	5.81	13.0	40.4	69.6	22.4	32.2	412	5.0	0
Mean				6.036	13.16	40.46	67.32	21.86	32.52	402.8	4.34	0.2
Std Dev				0.664	1.07	2.86	3.13	0.84	0.56	95.7	0.63	0.4
SEM				0.297	0.48	1.28	1.40	0.38	0.16	42.8	0.28	0.2
89F00118	M	2	-7	6.23	13.2	40.2	64.6	21.2	32.8	332	4.4	0
89F00132	M	2	-7	6.44	13.1	41.0	63.6	20.3	32.0	439	3.9	0
89F00141	M	2	-7	6.23	13.6	41.5	66.6	21.9	32.8	292	3.7	0
89F00176	M	2	-7	6.40	14.1	44.0	68.7	22.0	32.0	413	5.4	0
89F00257	M	2	-7	6.26	13.6	41.4	66.2	21.7	32.9	394	8.0	0
Mean				6.312	13.52	41.62	65.94	21.42	32.50	374.0	5.08	0.0
Std Dev				0.100	0.40	1.43	1.96	0.70	0.46	60.5	1.76	0.0
SEM				0.045	0.18	0.64	0.88	0.31	0.20	27.0	0.79	0.0
89F00129	M	3	-7	5.74	13.2	39.5	68.9	23.0	33.4	406	3.4	0
89F00147	M	3	-7	6.48	13.8	41.8	64.5	21.3	33.0	189	3.6	0
89F00154	M	3	-7	5.84	12.8	39.8	68.1	21.9	32.2	419	5.9	0
89F00172	M	3	-7	6.13	13.9	42.1	68.6	22.7	33.0	262	3.5	0
89F00173	M	3	-7	6.11	13.2	41.1	67.3	21.6	32.1	433	5.7	0
Mean				6.060	13.38	40.86	67.48	22.10	32.74	341.8	4.42	0.0
Std Dev				0.289	0.46	1.17	1.77	0.72	0.56	109.7	1.26	0.0
SEM				0.129	0.21	0.52	0.79	0.32	0.25	49.0	0.57	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00127	M	4	-7	6.78	13.8	42.4	62.6	20.4	32.5	369	3.9	0
89F00131	M	4	-7	6.26	13.8	42.9	68.5	22.0	32.2	287	2.5	0
89F00157	M	4	-7	5.91	13.0	39.2	66.4	22.0	33.2	391	5.5	0
89F00169	M	4	-7	6.00	12.8	38.9	64.9	21.3	32.9	295	6.2	0
89F00258	M	4	-7	4.15	11.1	31.2	75.2	26.7	35.6	453	7.3	0
Mean				5.820	12.90	38.92	67.52	22.48	33.28	359.0	5.08	0.0
Std Dev				0.993	1.10	4.68	4.80	2.45	1.35	69.4	1.90	0.0
SEM				0.444	0.49	2.09	2.15	1.10	0.60	31.0	0.85	0.0
89F00116	M	5	-7	6.51	13.7	42.7	65.6	21.0	32.1	402	3.8	0
89F00128	M	5	-7	6.45	13.4	41.2	63.8	20.8	32.5	448	2.3	0
89F00148	M	5	-7	5.50	12.2	37.1	67.5	22.2	32.9	429	3.9	0
89F00259	M	5	-7	6.58	13.3	41.2	62.6	20.2	32.3	441	8.9	0
89F00261	M	5	-7	6.41	14.3	43.1	67.2	22.3	33.2	219	7.3	0
Mean				6.290	13.38	41.06	65.34	21.30	32.60	387.8	5.24	0.0
Std Dev				0.446	0.77	2.38	2.13	0.92	0.45	96.0	2.75	0.0
SEM				0.200	0.34	1.06	0.95	0.41	0.20	42.9	1.23	0.0
89F00120	M	6	-7	6.03	12.5	38.9	64.5	20.7	32.1	317	4.5	0
89F00143	M	6	-7	6.17	13.0	40.0	64.9	21.1	32.5	565	3.7	0
89F00149	M	6	-7	6.00	12.9	38.0	63.4	21.5	33.9	212	3.7	0
89F00177	M	6	-7	5.96	12.6	39.8	66.7	21.1	31.7	305	5.6	0
89F00263	M	6	-7	6.08	13.3	40.4	66.5	21.9	32.9	240	9.0	0
Mean				6.048	12.86	39.42	65.20	21.26	32.62	327.8	5.29	0.0
Std Dev				0.081	0.32	0.97	1.39	0.46	0.84	139.7	2.21	0.0
SEM				0.036	0.14	0.43	0.62	0.20	0.38	62.5	0.99	0.0

Appendix B (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00115	M	7	-7	7.26	14.7	46.1	63.5	20.2	31.9	382	3.6	0
89F00137	M	7	-7	6.04	13.0	39.9	66.1	21.5	32.6	324	3.3	0
89F00164	M	7	-7	6.22	13.7	42.9	69.0	22.0	31.9	391	4.8	0
89F00171	M	7	-7	6.23	12.8	39.7	63.7	23.5	32.2	364	3.5	0
89F00264	M	7	-7	6.13	13.0	38.5	62.8	21.2	33.8	325	8.8	0
Mean				6.376	13.44	41.42	65.02	21.08	32.48	357.2	4.80	0.0
Std Dev				0.500	0.78	3.08	2.55	0.73	0.79	31.4	2.31	0.0
SEM				0.224	0.35	1.38	1.14	0.33	0.35	14.0	1.03	0.0
89F00125	M	8	-7	6.75	14.5	46.1	68.3	21.5	31.5	254	4.2	0
89F00145	M	8	-7	5.73	12.5	37.9	66.2	21.8	33.0	253	3.3	0
89F00158	M	8	-7	6.62	14.4	43.4	65.6	21.8	33.2	164	4.1	0
89F00165	M	8	-7	6.47	13.8	42.9	66.3	21.3	32.2	323	6.2	0
89F00266	M	8	-7	6.23	12.2	37.3	59.8	19.6	32.7	465	8.0	0
Mean				6.360	13.48	41.52	65.24	21.20	32.52	291.8	5.16	0.0
Std Dev				0.402	1.07	3.79	3.21	0.92	0.68	112.1	1.91	0.0
SEM				0.180	0.48	1.69	1.43	0.41	0.31	50.1	0.86	0.0
89F00121	M	9	-7	5.61	12.4	38.1	68.0	22.1	32.5	318	4.3	0
89F00139	M	9	-7	6.45	13.1	41.0	63.5	20.3	32.0	530	3.6	0
89F00151	M	9	-7	5.42	12.4	37.2	68.6	22.9	33.3	376	4.3	0
89F00156	M	9	-7	6.87	13.7	42.9	62.4	19.9	31.9	382	5.7	6
89F00267	M	9	-7	5.92	13.2	39.5	66.8	22.3	33.4	544	6.9	0
Mean				6.054	12.96	39.74	65.85	21.50	32.62	430.0	4.96	1.1
Std Dev				0.600	0.56	2.28	2.76	1.32	0.70	100.9	1.33	2.5
SEM				0.268	0.25	1.02	1.24	0.59	0.32	45.1	0.59	1.1

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00124	M	10	-7	7.1	27	0	0	0	72	0	1	NT	NT
89F00136	M	10	-7	10.6	23	0	3	0	68	1	5	6.3	27.3
89F00142	M	10	-7	10.0	33	0	0	0	63	2	2	7.0	24.8
89F00168	M	10	-7	6.7	24	0	1	0	70	0	5	NT	NT
89F00175	M	10	-7	8.9	22	0	0	0	74	2	2	6.5	29.0
Mean				8.66	25.8	0.0	0.8	0.0	69.4	1.0	3.0	6.60	27.03
Std Dev				1.72	4.4	0.0	1.3	0.0	4.2	1.0	1.9	0.36	2.11
SEM				0.77	2.0	0.0	0.6	0.0	1.9	0.4	0.8	0.21	1.22

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00126	M	1	-7	9.9	35	0	1	0	63	1	0	6.4	17.2
89F00130	M	1	-7	7.2	34	0	0	0	66	0	0	NT	NT
89F00140	M	1	-7	6.7	24	0	0	0	70	0	6	6.6	16.8
89F00155	M	1	-7	5.8	38	0	0	0	59	1	2	5.7	14.2
89F00166	M	1	-7	6.1	23	0	0	0	69	0	8	5.3	31.8
Mean				7.14	30.8	0.0	0.2	0.0	65.4	0.4	3.2	6.00	20.00
Std Dev				1.63	6.8	0.0	0.4	0.0	4.5	0.5	3.6	0.61	7.98
SEM				0.73	3.1	0.0	0.2	0.0	2.0	0.2	1.6	0.30	3.99
89F00118	M	2	-7	6.9	38	0	0	2	52	2	6	6.5	22.8
89F00132	M	2	-7	6.1	36	0	1	0	60	1	2	5.8	19.5
89F00141	M	2	-7	10.1	23	0	0	0	71	1	5	TNTC	NT
89F00176	M	2	-7	5.5	42	0	0	0	53	2	3	6.8	39.3
89F00257	M	2	-7	10.7	52	0	0	0	42	2	4	7.3	38.4
Mean				7.86	38.2	0.0	0.2	0.4	55.6	1.6	4.0	6.60	30.00
Std Dev				2.38	10.5	0.0	0.4	0.9	10.7	0.5	1.6	0.63	10.31
SEM				1.06	4.7	0.0	0.2	0.4	4.8	0.2	0.7	0.31	5.16
89F00129	M	3	-7	8.2	10	0	0	2	86	0	2	6.4	18.5
89F00147	M	3	-7	8.0	13	0	1	0	84	1	1	NT	NT
89F00154	M	3	-7	6.7	48	0	0	0	51	0	1	5.8	43.8
89F00172	M	3	-7	6.8	26	0	0	0	70	1	3	7.8	32.6
89F00173	M	3	-7	6.7	26	0	0	0	72	0	2	7.0	39.0
Mean				7.20	24.6	0.0	0.2	0.4	72.6	0.4	1.8	6.75	33.48
Std Dev				0.75	15.0	0.0	0.4	0.9	14.0	0.5	0.8	0.85	10.99
SEM				0.34	6.7	0.0	0.2	0.4	6.3	0.2	0.4	0.43	5.49

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00127	M	4	-7	6.8	29	0	0	0	64	3	4	7.6	17.6
89F00131	M	4	-7	7.7	63	0	2	0	27	2	6	6.0	18.4
89F00157	M	4	-7	7.6	42	0	0	0	57	0	1	6.2	23.6
89F00169	M	4	-7	10.0	25	0	0	0	68	1	6	8.0	25.8
89F00258	M	4	-7	6.1	28	0	0	0	69	2	1	TNTC	TNTC
Mean				7.64	37.4	0.0	0.4	0.0	57.0	1.6	3.6	6.95	47.08
Std Dev				1.47	15.7	0.0	0.9	0.0	17.4	1.1	2.5	1.00	57.64
SEM				0.66	7.0	0.0	0.4	0.0	7.8	0.5	1.1	0.50	25.78
89F00116	M	5	-7	6.5	13	0	0	3	79	1	4	6.0	25.4
89F00128	M	5	-7	9.0	11	0	0	1	85	2	1	NT	NT
89F00148	M	5	-7	7.2	34	0	0	0	62	0	4	6.3	65.2
89F00259	M	5	-7	7.3	19	0	0	0	74	3	4	6.5	34.0
89F00261	M	5	-7	6.6	23	0	0	0	73	2	2	7.0	40.2
Mean				7.32	20.0	0.0	0.0	0.8	74.6	1.6	3.0	6.45	41.20
Std Dev				1.00	9.2	0.0	0.0	1.3	8.5	1.1	1.4	0.42	17.11
SEM				0.45	4.1	0.0	0.0	0.6	3.8	0.5	0.6	0.21	8.56
89F00120	M	6	-7	7.3	23	0	0	1	75	1	0	6.8	18.8
89F00143	M	6	-7	10.0	48	0	0	0	51	0	1	6.4	17.5
89F00149	M	6	-7	5.6	44	0	0	0	56	0	0	6.2	12.1
89F00177	M	6	-7	5.3	26	0	0	0	73	1	0	6.5	21.8
89F00263	M	6	-7	4.7	15	0	0	0	84	1	0	7.8	36.3
Mean				6.58	31.2	0.0	0.0	0.2	67.8	0.6	0.2	6.74	21.30
Std Dev				2.14	14.2	0.0	0.0	1.4	13.8	0.5	0.4	0.63	9.09
SEM				0.96	6.3	0.0	0.0	0.2	6.2	0.2	0.2	0.28	4.07



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00115	M	7	-7	6.1	26	0	1	1	66	2	4	6.5	22.4
89F00137	M	7	-7	6.8	30	0	0	0	67	0	3	6.8	20.2
89F00164	M	7	-7	10.2	35	0	0	0	57	1	7	5.4	25.9
89F00171	M	7	-7	11.4	33	0	0	0	65	2	0	7.7	23.6
89F00264	M	7	-7	7.3	26	0	0	0	65	1	8	5.5	41.3
Mean				8.36	30.0	0.6	0.2	0.2	64.0	1.2	4.4	6.58	26.68
Std Dev				2.31	4.1	0.0	0.4	0.4	4.0	0.8	3.2	0.82	8.43
SEM				1.03	1.8	0.0	0.2	0.2	1.8	0.4	1.4	0.37	3.77
89F00125	M	8	-7	8.1	18	0	0	1	81	0	0	NT	NT
89F00145	M	8	-7	7.2	16	0	0	0	77	0	7	6.4	15.1
89F00158	M	8	-7	6.5	19	0	0	0	78	1	2	6.2	14.3
89F00165	M	8	-7	7.8	32	0	0	0	66	1	1	5.8	30.8
89F00266	M	8	-7	8.2	27	0	0	0	70	1	2	6.9	38.8
Mean				7.56	22.4	0.0	0.0	0.2	74.4	0.6	2.4	6.33	24.75
Std Dev				0.71	6.8	0.0	0.0	0.4	6.2	0.5	2.7	0.46	12.06
SEM				0.32	3.0	0.0	0.0	0.2	2.8	0.2	1.2	0.23	6.03
89F00121	M	9	-7	7.0	15	0	0	0	84	1	0	NT	NT
89F00139	M	9	-7	9.9	26	0	0	0	71	1	2	7.0	16.8
89F00151	M	9	-7	5.8	55	0	0	0	41	1	3	5.8	50.3
89F00156	M	9	-7	7.8	33	0	2	0	58	2	5	NT	NT
89F00267	M	9	-7	6.6	16	0	0	0	81	1	2	6.0	31.7
Mean				7.42	29.0	0.0	0.4	0.0	67.0	1.2	2.4	6.27	32.93
Std Dev				1.56	16.3	0.0	0.9	0.0	17.7	0.4	1.8	0.64	16.78
SEM				0.70	7.3	0.0	0.4	0.0	7.9	0.2	0.8	0.37	9.69

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00124	M	10	0	5.06	11.8	35.1	69.4	23.3	33.6	429	4.3	0
89F00136	M	10	0	5.77	13.3	38.8	67.3	23.1	34.3	775	5.8	0
89F00142	M	10	0	5.70	12.0	38.2	67.1	21.1	31.4	431	5.8	0
89F00168	M	10	0	4.63	10.2	30.8	66.6	22.0	33.1	483	6.1	5
89F00175	M	10	0	4.26	11.4	32.1	75.4	26.8	35.5	614	6.3	0
Mean				5.084	11.74	35.00	69.16	23.26	33.58	546.4	5.66	1.0
Std Dev				0.659	1.12	3.56	3.65	2.17	1.52	148.3	0.79	2.2
SEM				0.295	0.50	1.59	1.63	0.97	0.68	66.3	0.35	1.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00126	M	1	0	4.90	10.9	34.2	69.8	22.2	31.9	299	4.9	3
89F00130	M	1	0	5.64	12.6	37.3	66.1	22.3	33.8	406	6.5	0
89F00140	M	1	0	4.92	11.7	35.8	72.7	23.8	32.7	149	4.3	0
89F00155	M	1	0	5.38	11.7	34.3	63.8	21.7	34.1	513	5.6	0
89F00166	M	1	0	5.21	12.4	36.2	69.5	23.8	34.3	524	5.9	0
Mean				5.210	11.86	35.56	68.38	22.76	33.36	378.2	5.44	0.6
Std Dev				0.314	0.67	1.32	3.47	0.98	1.02	157.3	0.86	1.3
SEM				0.140	0.30	0.59	1.55	0.44	0.46	70.4	0.38	0.6
89F00118	M	2	0	5.68	11.9	36.9	65.0	21.0	32.2	272	5.0	0
89F00132	M	2	0	4.89	10.3	32.0	65.5	21.1	32.2	542	5.5	0
89F00141	M	2	0	5.37	12.1	37.4	69.7	22.5	32.4	534	6.1	0
89F00176	M	2	0	5.38	12.0	36.8	68.4	22.3	32.6	515	5.7	0
89F00257	M	2	0	5.46	11.9	36.5	66.8	21.8	32.6	357	8.8	0
Mean				5.356	11.64	35.92	67.08	21.74	32.40	444.0	6.22	0.0
Std Dev				0.289	0.75	2.22	1.97	0.68	0.20	122.4	1.50	0.0
SEM				0.129	0.34	0.99	0.88	0.30	0.09	54.7	0.67	0.0
89F00129	M	3	0	5.13	11.9	36.2	70.6	23.2	32.9	264	5.3	0
89F00147	M	3	0	4.42	10.0	30.0	67.9	22.6	33.3	373	5.2	0
89F00154	M	3	0	4.52	10.2	31.1	68.8	22.6	32.8	373	5.8	0
89F00172	M	3	0	5.21	11.9	36.0	69.1	22.8	33.1	691	6.1	0
89F00173	M	3	0	4.59	10.5	31.9	69.4	22.9	32.9	709	6.5	0
Mean				4.774	10.90	33.04	69.16	22.82	33.00	482.0	5.78	0.0
Std Dev				0.368	0.93	2.87	0.98	0.25	0.20	204.0	0.54	0.0
SEM				0.164	0.42	1.29	0.44	0.11	0.09	91.2	0.24	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00127	M	4	0	5.68	11.9	36.6	64.4	21.0	32.5	443	4.6	0
89F00131	M	4	0	5.13	11.6	35.9	70.0	22.6	32.3	404	5.0	1
89F00157	M	4	0	4.96	10.9	33.0	66.5	22.0	33.0	354	6.0	1
89F00169	M	4	0	5.00	11.2	33.6	67.1	22.4	33.3	530	6.0	0
89F00258	M	4	0	3.22	9.0	25.8	80.1	28.0	34.9	472	9.0	8
Mean				4.798	10.92	32.98	69.62	23.20	33.20	440.6	6.12	2.0
Std Dev				0.928	1.14	4.29	6.19	2.75	1.03	66.8	1.72	3.4
SEM				0.415	0.51	1.92	2.77	1.23	0.46	29.9	0.77	1.5
89F00116	M	5	0	5.37	11.8	36.5	68.0	22.0	32.3	211	3.7	2
89F00128	M	5	0	5.53	11.8	36.0	65.1	21.3	32.8	139	4.6	0
89F00148	M	5	0	4.97	12.1	34.6	69.7	24.3	35.0	213	6.0	2
89F00259	M	5	0	5.24	11.1	33.2	63.3	21.2	33.4	319	8.7	0
89F00261	M	5	0	5.16	11.8	35.3	68.4	22.9	33.4	351	8.2	3
Mean				5.254	11.72	35.12	66.90	22.34	33.38	246.6	6.24	1.4
Std Dev				0.212	0.37	1.29	2.62	1.29	1.02	86.8	2.18	1.3
SEM				0.095	0.17	0.58	1.17	0.58	0.45	38.8	0.98	0.6
39F00120	M	6	0	5.12	11.3	34.0	66.4	22.1	33.2	372	2.6	0
89F00143	M	6	0	5.69	12.4	37.7	66.2	21.8	32.9	443	6.0	6
89F00149	M	6	0	5.24	11.3	34.3	65.4	21.6	32.9	455	5.9	0
89F00177	M	6	0	4.89	11.4	33.5	68.5	23.3	34.0	639	6.3	0
89F00263	M	6	0	4.86	11.2	33.1	68.1	23.0	33.8	309	7.8	0
Mean				5.160	11.52	34.52	66.92	22.36	33.36	443.6	5.72	1.2
Std Dev				0.336	0.50	1.84	1.32	0.75	0.51	124.1	1.90	2.7
SEM				0.150	0.22	0.82	0.59	0.34	0.23	55.5	0.85	1.2

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00115	M	7	0	6.19	12.9	40.4	65.2	20.8	31.9	498	4.1	0
89F00137	M	7	0	5.36	11.6	36.1	67.3	21.6	32.1	273	5.3	1
89F00164	M	7	0	5.32	12.1	37.6	70.7	22.7	32.2	655	6.4	1
89F00171	M	7	0	5.05	11.2	33.1	65.6	22.2	33.8	660	6.9	0
89F00264	M	7	0	5.14	10.6	32.5	63.2	20.6	32.6	313	8.1	0
Mean				5.412	11.68	35.94	66.40	21.58	32.52	479.8	6.16	0.4
Std Dev				0.453	0.88	3.26	2.81	0.90	0.76	183.1	1.53	0.5
SEM				0.203	0.39	1.46	1.26	0.40	0.34	81.9	0.68	0.2
89F00125	M	8	0	5.38	12.5	38.8	72.1	23.2	32.2	468	4.3	6
89F00145	M	8	0	5.53	12.1	36.7	66.4	21.9	33.0	395	6.4	0
89F00158	M	8	0	5.60	12.4	37.0	66.0	22.1	33.5	531	5.8	0
89F00165	M	8	0	5.41	12.9	36.7	67.8	23.8	35.1	552	6.0	2
89F00266	M	8	0	4.60	9.1	27.8	60.4	19.8	32.7	424	8.3	0
Mean				5.304	11.80	35.40	66.54	22.16	33.30	474.0	6.16	1.6
Std Dev				0.404	1.54	4.34	4.20	1.53	1.11	67.3	1.44	2.6
SEM				0.180	0.69	1.94	1.88	0.69	0.50	30.1	0.64	1.2
89F00121	M	9	0	4.67	10.7	33.3	71.2	22.9	32.1	431	3.1	7
89F00139	M	9	0	5.83	12.0	37.6	64.5	20.6	31.9	149	5.6	0
89F00151	M	9	0	4.93	11.5	34.4	69.7	23.3	33.4	632	6.2	2
89F00156	M	9	0	5.64	11.6	35.5	63.0	20.6	32.7	424	6.0	1
89F00267	M	9	0	4.76	10.9	32.6	68.4	22.9	33.4	490	8.5	0
Mean				5.166	11.34	34.68	67.36	22.06	32.70	425.2	5.88	2.0
Std Dev				0.532	0.53	1.97	3.48	1.34	0.70	175.6	1.92	2.9
SEM				0.238	0.24	0.88	1.56	0.60	0.31	78.5	0.86	1.3

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00124	M	10	0	8.2	48	0	2	0	49	0	1	6.4	40.5
89F00136	M	10	0	11.5	49	0	1	0	45	2	3	7.7	TNTC
89F00142	M	10	0	9.2	29	0	1	0	70	0	0	6.2	TNTC
89F00168	M	10	0	8.4	26	0	0	0	73	1	0	7.3	TNTC
89F00175	M	10	0	11.3	30	0	0	0	66	0	4	6.5	TNTC
Mean				9.72	36.4	0.0	0.8	0.0	60.6	0.6	1.6	6.82	128.10
Std Dev				1.58	11.1	0.0	0.8	0.0	12.7	0.9	1.8	0.65	48.97
SEM				0.71	5.0	0.0	0.4	0.0	5.7	0.4	0.8	0.29	21.90

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00126	M	1	0	12.3	44	0	0	0	55	1	0	6.3	63.5
89F00130	M	1	0	10.1	45	0	0	0	52	0	3	10.3	TNTC
89F00140	M	1	0	9.8	34	0	0	0	66	0	0	6.2	TNTC
89F00155	M	1	0	9.9	43	0	0	0	56	1	1	6.0	53.8
89F00166	M	1	0	9.5	34	0	0	0	59	3	4	10.0	TNTC
Mean				10.32	40.0	0.0	0.0	0.0	57.6	1.0	1.6	7.76	113.46
Std Dev				1.13	5.5	0.0	0.0	0.0	5.3	1.2	1.8	2.19	50.15
SEM				0.50	2.5	0.0	0.0	0.0	2.4	0.5	0.8	0.98	22.43
89F00118	M	2	0	6.8	31	0	0	0	69	0	0	5.4	39.8
89F00132	M	2	0	7.8	14	0	0	0	85	1	0	5.5	TNTC
89F00141	M	2	0	11.1	23	0	0	0	68	2	7	5.5	34.2
89F00176	M	2	0	6.6	47	0	0	0	52	1	0	6.5	TNTC
89F00257	M	2	0	11.2	53	0	0	0	41	1	5	6.6	TNTC
Mean				8.70	33.6	0.0	0.0	0.0	63.0	1.0	2.4	5.90	104.8
Std Dev				2.28	16.3	0.0	0.0	0.0	17.0	0.7	3.4	0.60	61.92
SEM				1.02	7.3	0.0	0.0	0.0	7.6	0.3	1.5	0.27	27.69
89F00129	M	3	0	13.0	78	0	2	0	20	0	0	7.5	TNTC
89F00147	M	3	0	9.2	69	0	0	0	31	0	0	5.8	52.8
89F00154	M	3	0	8.2	41	0	0	0	59	0	0	7.3	TNTC
89F00172	M	3	0	9.2	23	0	0	0	70	3	4	9.5	TNTC
89F00173	M	3	0	8.3	42	0	0	0	56	0	2	6.6	TNTC
Mean				9.58	50.6	0.0	0.4	0.0	47.2	0.6	1.2	7.34	130.56
Std Dev				1.97	22.5	0.0	0.9	0.0	20.8	1.3	1.8	1.38	43.47
SEM				0.88	10.0	0.0	0.4	0.0	9.3	0.6	0.8	0.62	19.44

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00127	M	4	0	9.7	57	0	0	0	42	1	0	7.6	TNTC
89F00131	M	4	0	5.7	38	0	0	0	61	1	0	4.6	NT
89F00157	M	4	0	5.7	40	0	0	0	59	0	1	6.0	16.8
89F00169	M	4	0	10.8	38	0	0	0	60	0	2	8.8	TNTC
89F00258	M	4	0	13.3	33	0	0	0	66	1	0	6.0	44.6
Mean				9.04	41.2	0.0	0.0	0.0	57.6	0.6	0.6	6.60	90.35
Std Dev				3.32	9.2	0.0	0.0	0.0	9.1	0.5	0.9	1.62	69.81
SEM				1.48	4.1	0.0	0.0	0.0	4.1	0.2	0.4	0.73	34.90
89F00116	M	5	0	7.7	49	0	2	0	47	2	0	6.6	26.0
89F00128	M	5	0	11.4	44	0	0	0	55	1	0	7.5	TNTC
89F00148	M	5	0	13.3	39	0	0	0	61	0	0	7.0	TNTC
89F00259	M	5	0	7.0	37	0	0	0	62	0	1	7.0	TNTC
89F00261	M	5	0	7.2	52	0	0	0	48	0	0	6.7	TNTC
Mean				9.32	44.2	0.0	0.4	0.0	54.6	0.6	0.2	6.96	125.20
Std Dev				2.86	6.4	0.0	0.9	0.0	7.0	0.9	0.4	0.35	55.45
SEM				1.28	2.9	0.0	0.4	0.0	3.1	0.4	0.2	0.16	24.80
89F00120	M	6	0	9.8	88	0	1	0	11	0	0	6.5	85.1
89F00143	M	6	0	7.6	39	0	0	0	56	3	2	5.3	58.2
89F00149	M	6	0	10.2	61	0	0	0	36	0	3	4.8	31.2
89F00177	M	6	0	7.5	35	0	0	0	63	0	2	5.6	TNTC
89F00263	M	6	0	8.8	38	0	0	0	59	1	2	6.2	30.8
Mean				8.78	52.2	0.0	0.2	0.0	45.0	0.8	1.8	5.68	71.06
Std Dev				1.23	22.5	0.0	0.4	0.0	21.7	1.3	1.1	0.68	49.51
SEM				0.55	10.1	0.0	0.2	0.0	9.7	0.6	0.5	0.31	22.14



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00115	M	7	0	6.8	75	0	0	0	21	1	3	7.0	37.2
89F00137	M	7	0	7.9	33	0	0	0	66	1	0	6.3	97.4
89F00164	M	7	0	10.5	23	0	0	0	64	8	5	5.2	TNTC
89F00171	M	7	0	11.3	27	0	0	0	71	0	2	8.3	TNTC
89F00264	M	7	0	7.2	39	0	0	0	60	1	0	6.5	TNTC
Mean				8.74	39.4	0.0	0.0	0.0	56.4	2.2	2.0	6.66	116.92
Std Dev				2.03	20.8	0.0	0.0	0.0	20.2	3.3	2.1	1.13	50.05
SEM				0.91	9.3	0.0	0.0	0.0	9.0	1.5	0.9	0.50	22.38
89F00125	M	8	0	11.4	65	0	0	0	32	1	2	7.8	TNTC
89F00145	M	8	0	11.1	45	0	0	0	55	0	0	5.8	39.1
89F00158	M	8	0	10.0	22	0	0	0	76	0	2	7.3	80.0
89F00165	M	8	0	8.7	36	0	0	0	61	0	3	6.8	TNTC
89F00266	M	8	0	9.8	51	0	0	0	45	0	0	7.0	TNTC
Mean				10.20	43.8	0.0	0.0	0.0	54.6	0.2	1.4	6.94	113.82
Std Dev				1.08	16.1	0.0	0.0	0.0	16.1	0.4	1.3	0.74	51.61
SEM				0.48	7.2	0.0	0.0	0.0	7.2	0.2	0.6	0.33	23.08
89F00121	M	9	0	6.9	26	0	0	0	74	0	0	6.2	29.0
89F00139	M	9	0	11.3	35	0	1	0	61	1	2	6.0	35.6
89F00151	M	9	0	9.9	42	0	0	0	56	0	2	8.4	TNTC
89F00156	M	9	0	10.3	40	0	0	0	58	0	2	8.3	TNTC
89F00267	M	9	0	9.7	29	0	0	0	69	0	2	6.2	59.8
Mean				9.62	34.4	0.0	0.2	0.0	63.6	0.2	1.6	7.02	84.88
Std Dev				1.64	6.9	0.0	0.4	0.0	7.6	0.4	0.9	1.22	60.54
SEM				0.73	3.1	0.0	0.2	0.0	3.4	0.2	0.4	0.54	27.08

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00124	M	10	1	4.79	10.9	33.1	69.0	22.8	32.9	491	7.2	2
89F00136	M	10	1	clot	12.8	clot	clot	clot	clot	clot	6.0	0
89F00142	M	10	1	5.52	11.8	36.8	66.7	21.4	32.1	426	5.5	0
89F00168	M	10	1	4.39	9.9	29.3	66.8	22.6	33.8	480	6.2	3
89F00175	M	10	1	4.14	11.1	30.9	74.7	26.8	35.9	612	6.5	0
Mean				4.710	11.30	32.53	69.30	23.40	33.68	502.3	6.28	1.0
Std Dev				0.603	1.08	3.25	3.75	2.35	1.64	78.5	0.63	1.4
SEM				0.301	0.54	1.62	1.88	1.17	0.82	39.2	0.28	0.6

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00126	M	1	1									
89F00130	M	1	1	5.18	11.5	34.1	65.8	22.2	33.7	360	5.8	0
89F00140	M	1	1	4.78	11.5	34.7	72.5	24.1	33.1	216	5.3	0
89F00155	M	1	1	5.46	11.5	34.8	63.8	21.1	33.0	612	6.9	0
89F00166	M	1	1	4.73	11.3	33.3	70.3	23.9	33.9	490	5.5	0
Mean				5.038	11.45	34.23	68.10	22.83	33.43	419.5	5.88	0.0
Std Dev				0.346	0.10	0.69	4.00	1.43	0.44	170.3	0.71	0.0
SEM				0.173	0.05	0.35	2.00	0.72	0.22	85.2	0.36	0.0
89F00118	M	2	1	5.17	10.9	34.0	65.8	21.1	32.1	332	5.1	0
89F00132	M	2	1	5.27	10.7	34.5	65.5	20.3	31.0	547	5.6	0
89F00141	M	2	1	5.01	11.5	34.6	69.1	23.0	33.2	448	5.0	0
89F00176	M	2	1	5.12	11.4	34.8	68.0	22.3	32.8	554	6.0	0
89F00257	M	2	1	4.69	10.8	31.7	67.7	23.1	34.1	446	8.4	2
Mean				5.052	11.06	33.92	67.22	21.96	32.64	465.4	6.02	0.4
Std Dev				0.223	0.36	1.28	1.53	1.22	1.17	90.8	1.39	0.9
SEM				0.100	0.16	0.57	0.68	0.55	0.52	40.6	0.62	0.4
89F00129	M	3	1	4.65	11.1	32.7	70.3	23.9	33.9	338	5.3	0
89F00147	M	3	1	4.20	9.5	28.7	68.3	22.6	33.1	379	6.0	0
89F00154	M	3	1	4.02	9.3	28.0	69.7	23.1	33.2	373	6.5	2
89F00172	M	3	1	4.71	10.8	32.4	68.7	22.9	33.3	602	5.9	0
89F00173	M	3	1	4.21	9.8	29.5	70.1	23.3	33.2	648	6.5	0
Mean				4.358	10.10	30.26	69.42	23.16	33.34	468.0	6.04	0.4
Std Dev				0.304	0.80	2.16	0.88	0.49	0.32	145.1	0.50	0.9
SEM				0.136	0.36	0.97	0.39	0.22	0.14	64.9	0.22	0.4

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00127	M	4	1	5.41	11.2	34.9	64.6	20.7	32.1	440	6.5	0
89F00131	M	4	1	5.17	11.7	36.3	70.2	22.6	32.2	519	5.0	0
89F00157	M	4	1	5.20	11.9	35.0	67.4	22.9	34.0	499	6.8	0
89F00159	M	4	1	4.63	10.6	31.1	67.1	22.9	34.1	541	5.9	0
89F00258	M	4	1	2.99	8.8	25.1	83.8	29.4	35.1	628	8.6	9
Mean				4.680	10.84	32.48	70.62	23.70	33.50	525.4	6.56	1.8
Std Dev				0.988	1.25	4.56	7.63	3.32	1.31	68.5	1.33	4.0
SEM				0.442	0.56	2.04	3.41	1.48	0.58	30.7	0.60	1.8
89F00116	M	5	1	4.75	10.4	32.8	69.0	21.9	31.7	230	6.1	0
89F00128	M	5	1	5.32	11.2	34.7	65.3	21.1	32.3	168	5.3	0
89F00148	M	5	1	4.42	10.7	31.3	70.8	24.2	34.2	227	6.3	1
89F00259	M	5	1	4.60	9.9	29.7	64.5	21.5	33.3	294	8.5	3
89F00261	M	5	1	4.55	11.1	31.8	69.8	24.4	34.9	393	7.8	5
Mean				4.728	10.66	32.06	67.88	22.62	33.28	262.4	6.80	1.8
Std Dev				0.351	0.53	1.85	2.81	1.56	1.32	85.5	1.31	2.2
SEM				0.157	0.25	0.83	1.26	0.70	0.59	38.3	0.59	1.0
89F00120	M	6	1	4.93	11.2	32.5	65.9	22.7	34.5	404	5.9	0
89F00143	M	6	1	5.42	11.7	35.7	65.9	21.6	32.8	636	6.2	0
89F00149	M	6	1	4.53	10.4	30.2	66.7	23.0	34.4	572	6.5	0
89F00177	M	6	1	4.63	10.5	31.8	68.6	22.7	33.0	595	5.9	0
89F00263	M	6	1	4.51	10.4	30.9	68.5	23.1	33.7	408	8.2	0
Mean				4.804	10.84	32.22	67.12	22.62	33.68	523.0	6.54	0.0
Std Dev				0.383	0.59	2.13	1.35	0.60	0.78	109.2	0.96	0.0
SEM				0.171	0.26	0.95	0.60	0.27	0.35	48.9	0.43	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00115	M	7	1	5.30	10.8	34.4	64.9	20.4	31.4	519	4.8	0
89F00137	M	7	1	5.37	11.5	36.0	67.0	21.4	31.9	325	6.0	0
89F00164	M	7	1	4.92	11.6	34.0	69.2	23.6	34.1	577	5.0	0
89F00171	M	7	1	4.76	10.4	31.1	65.4	21.8	33.4	684	6.0	0
89F00264	M	7	1	4.44	9.4	28.5	64.2	21.2	33.0	399	9.0	1
Mean				4.958	10.74	32.80	66.14	21.68	32.76	500.8	6.16	0.2
Std Dev				0.386	0.90	2.98	2.00	1.19	1.10	142.3	1.68	0.4
SEM				0.173	0.40	1.33	0.89	0.53	0.49	63.6	0.75	0.2
89F00125	M	8	1	5.08	11.7	36.6	72.1	23.0	32.0	424	6.0	6
89F00145	M	8	1	4.81	10.7	32.3	67.2	22.2	33.1	498	5.6	0
89F00158	M	8	1	4.86	11.2	32.1	66.1	23.0	34.9	423	6.1	0
89F00165	M	8	1	5.28	11.7	35.2	66.6	22.2	33.2	602	5.3	0
89F00266	M	8	1	4.25	8.8	26.3	61.8	20.7	33.5	528	8.2	5
Mean				4.856	10.82	32.50	66.76	22.22	33.34	495.0	6.24	2.2
Std Dev				0.387	1.20	3.96	3.67	0.94	1.04	75.5	1.14	3.0
SEM				0.173	0.54	1.77	1.64	0.42	0.47	33.7	0.51	1.4
89F00121	M	9	1	3.97	9.4	28.6	72.1	23.7	32.9	301	5.4	7
89F00139	M	9	1	5.60	11.6	36.1	64.5	20.7	32.1	281	5.8	0
89F00151	M	9	1	4.75	10.9	33.2	69.8	22.9	32.8	649	6.0	0
89F00156	M	9	1	5.12	10.8	32.1	62.6	21.1	33.6	404	6.1	2
89F00267	M	9	1	4.29	10.3	30.0	70.0	24.0	34.3	500	9.0	2
Mean				4.746	10.60	32.00	67.80	22.48	33.14	427.0	6.46	2.2
Std Dev				0.648	0.82	2.91	4.04	1.50	0.84	151.9	1.44	2.9
SEM				0.290	0.36	1.30	1.81	0.67	0.37	67.9	0.65	1.3

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HtET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00124	M	10	1	7.8	38	0	2	0	59	1	0	5.8	50.6
89F00136	M	10	1	12.3	67	0	0	0	27	3	3	7.3	TNTC
89F00142	M	10	1	10.8	40	0	1	0	55	0	4	6.4	33.0
89F00168	M	10	1	7.7	32	0	0	0	62	0	6	7.5	TNTC
89F00175	M	10	1	11.0	31	0	0	0	66	0	3	6.0	TNTC
Mean				9.92	41.6	0.0	0.6	0.0	53.8	0.8	3.2	6.60	106.72
Std Dev				2.06	14.7	0.0	0.9	0.0	15.5	1.3	2.2	0.76	59.59
SEM				0.92	6.6	0.0	0.4	0.0	6.9	0.6	1.0	0.34	26.65

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00126	M	1	1	clot								5.4	50.8
89F00130	M	1	1	10.4	62	0	0	0	33	0	5	8.3	TNTC
89F00140	M	1	1	8.7	57	0	1	0	38	0	4	5.8	49.4
89F00155	M	1	1	8.9	69	0	0	0	24	2	5	4.0	TNTC
89F00166	M	1	1	7.6	45	0	0	0	52	2	1	7.5	39.7
Mean				8.90	58.3	0.0	0.3	0.0	36.8	1.0	3.8	6.20	87.98
Std Dev				1.15	10.1	0.0	0.5	0.0	11.7	1.2	1.9	1.71	56.78
SEM				0.58	5.1	0.0	0.3	0.0	5.9	0.6	0.9	0.77	25.39
89F00118	M	2	1	7.6	35	0	1	0	64	0	0	5.8	35.1
89F00132	M	2	1	9.3	37	0	0	0	58	3	2	5.6	TNTC
89F00141	M	2	1	8.8	33	0	0	0	64	0	3	TNTC	TNTC
89F00176	M	2	1	5.8	59	0	0	0	38	1	2	5.8	TNTC
89F00257	M	2	1	10.5	67	0	0	0	29	1	3	6.4	TNTC
Mean				8.40	46.2	0.0	0.2	0.0	50.6	1.0	2.0	5.90	127.02
Std Dev				1.79	15.7	0.0	0.4	0.0	16.1	1.2	1.2	0.35	51.38
SEM				0.80	7.0	0.0	0.2	0.0	7.2	0.5	0.5	0.17	22.98
89F00129	M	3	1	9.8	56	0	0	0	42	2	0	4.8	TNTC
89F00147	M	3	1	6.5	58	0	1	0	40	1	0	7.0	TNTC
89F00154	M	3	1	8.8	42	0	1	0	55	1	1	6.8	26.8
89F00172	M	3	1	7.8	50	0	0	0	49	0	1	6.3	TNTC
89F00173	M	3	1	8.0	75	0	0	0	23	0	2	5.4	TNTC
Mean				8.18	56.2	0.0	0.4	0.0	41.8	0.8	0.8	6.06	125.36
Std Dev				1.23	12.2	0.0	0.5	0.0	12.1	0.8	0.8	0.94	55.10
SEM				0.55	5.5	0.0	0.2	0.0	5.4	0.4	0.4	0.42	24.64

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00127	M	4	1	9.1	42	0	0	0	51	1	6	5.6	TNTC
89F00131	M	4	1	10.8	45	0	0	0	54	1	0	5.3	TNTC
89F00157	M	4	1	7.0	20	0	0	0	78	1	1	8.9	TNTC
89F00169	M	4	1	10.3	59	0	0	0	39	0	2	7.3	44.0
89F00258	M	4	1	16.4	43	0	0	0	53	2	2	8.0	TNTC
Mean				10.72	41.8	0.0	0.0	0.0	55.0	1.0	2.2	7.02	128.80
Std Dev				3.50	14.0	0.0	0.0	0.0	14.2	0.7	2.3	1.54	47.40
SEM				1.56	6.3	0.0	0.0	0.0	6.3	0.3	1.0	0.69	21.20
89F00116	M	5	1	8.9	45	0	1	0	51	3	0	6.8	TNTC
89F00128	M	5	1	12.3	18	0	0	0	80	2	0	5.4	TNTC
89F00148	M	5	1	12.8	35	0	0	0	63	0	2	7.2	TNTC
89F00259	M	5	1	6.8	54	0	0	0	44	0	2	7.4	TNTC
89F00261	M	5	1	7.5	64	0	0	0	35	0	1	8.2	TNTC
Mean				9.66	43.2	0.0	0.2	0.0	54.6	1.0	1.0	7.00	150.00
Std Dev				2.75	17.7	0.0	0.4	0.0	17.5	1.4	1.0	1.03	0.00
SEM				1.23	7.9	0.0	0.2	0.0	7.8	0.6	0.4	0.46	0.00
89F00120	M	6	1	10.7	48	0	1	0	49	1	1	6.5	TNTC
89F00143	M	6	1	12.1	48	0	1	0	44	4	3	5.4	28.3
89F00149	M	6	1	7.0	55	0	0	0	38	0	7	6.2	27.2
89F00177	M	6	1	6.1	26	0	0	0	70	1	3	6.3	TNTC
89F00263	M	6	1	9.0	46	0	0	0	52	0	2	6.1	TNTC
Mean				8.98	44.6	0.0	0.4	0.0	50.6	1.2	3.2	6.10	101.10
Std Dev				2.50	10.9	0.0	0.5	0.0	12.1	1.6	2.3	0.42	66.96
SEM				1.12	4.9	0.0	0.2	0.0	5.4	0.7	1.0	0.19	29.95



## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00115	M	7	1	7.6	34	0	1	0	64	1	0	6.2	TNTC
89F00137	M	7	1	8.9	39	0	0	0	58	0	3	5.2	19.8
89F00164	M	7	1	10.4	50	0	0	0	50	0	0	7.3	TNTC
89F00171	M	7	1	8.9	33	0	0	0	63	2	2	6.6	TNTC
89F00264	M	7	1	9.0	49	0	0	0	49	0	2	10.5	TNTC
Mean				8.96	41.0	0.0	0.2	0.0	56.8	0.6	1.4	7.16	123.96
Std Dev				0.99	8.1	0.0	0.4	0.0	7.0	0.9	1.3	2.02	58.23
SEM				0.44	3.6	0.0	0.2	0.0	3.2	0.4	0.6	0.90	26.04
89F00125	M	8	1	10.9	34	0	1	0	65	0	0	6.8	TNTC
89F00145	M	8	1	10.4	47	0	0	0	49	0	4	5.2	55.1
89F00158	M	8	1	10.2	37	0	0	0	61	0	2	7.8	TNTC
89F00165	M	3	1	7.8	43	0	0	0	52	0	5	5.5	TNTC
89F00266	M	8	1	10.1	46	0	0	0	54	0	0	5.6	TNTC
Mean				9.88	41.4	0.0	0.2	0.0	56.2	0.0	2.2	6.18	131.02
Std Dev				1.20	5.7	0.0	0.4	0.0	6.6	0.0	2.3	1.09	42.44
SEM				0.54	2.5	0.0	0.2	0.0	3.0	0.0	1.0	0.49	18.98
89F00121	M	9	1	11.3	32	0	0	0	68	0	0	5.4	32.4
89F00139	M	9	1	9.7	26	0	0	0	71	2	1	5.8	TNTC
89F00151	M	9	1	8.7	50	0	0	0	47	1	2	10.0	TNTC
89F00156	M	9	1	10.5	41	0	0	0	55	1	3	8.0	TNTC
89F00267	M	9	1	10.0	35	0	0	0	60	0	5	10.8	TNTC
Mean				10.04	36.8	0.0	0.0	0.0	60.2	0.8	2.2	8.00	126.48
Std Dev				0.96	9.1	0.0	0.0	0.0	9.7	0.8	1.9	2.42	52.59
SEM				0.43	4.1	0.0	0.0	0.0	4.4	0.4	0.9	1.08	23.52

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00124	M	10	2	4.59	10.3	31.8	69.2	22.4	32.4	500	6.0	4
89F00136	M	10	2	4.53	11.3	30.9	68.3	24.9	36.6	702	6.1	0
89F00142	M	10	2	5.14	11.2	35.0	68.1	21.8	32.0	424	4.7	0
89F00168	M	10	2	4.37	9.9	29.3	67.1	22.7	33.8	528	6.2	0
89F00175	M	10	2	4.25	11.1	31.9	75.1	26.1	34.8	454	8.5	0
Mean				4.576	10.76	31.78	69.56	23.58	33.92	521.6	6.30	0.8
Std Dev				0.342	0.62	2.08	3.19	1.83	1.87	108.6	1.37	1.8
SEM				0.153	0.28	0.93	1.42	0.82	0.84	48.6	0.61	0.8

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00126	M	1	2	4.21	10.0	29.8	70.9	23.8	33.6	353	6.2	0
89F00130	M	1	2	4.80	10.8	31.8	66.2	22.5	34.0	358	6.8	0
89F00140	M	1	2	4.12	9.9	30.3	73.5	24.0	32.7	209	4.0	0
89F00155	M	1	2	4.71	10.4	30.6	65.0	22.1	34.0	594	6.0	0
89F00166	M	1	2	4.08	10.1	29.3	71.9	24.9	34.5	419	8.6	0
Mean				4.384	10.24	30.36	69.50	23.46	33.76	386.6	6.32	0.0
Std Dev				0.343	0.36	0.94	3.70	1.15	0.67	139.2	1.65	0.0
SEM				0.154	0.16	0.42	1.66	0.51	0.30	62.3	0.74	0.0
89F00118	M	2	2	4.93	10.5	32.3	65.5	21.3	32.5	367	6.2	0
89F00132	M	2	2	4.71	10.0	30.6	65.0	21.2	32.7	358	6.2	0
89F00141	M	2	2	4.73	11.1	33.3	70.3	23.5	33.3	369	6.7	0
89F00176	M	2	2	4.72	10.7	32.3	68.5	22.7	33.1	578	2.9	0
89F00257	M	2	2	4.83	10.3	32.0	66.4	21.4	32.2	631	7.4	0
Mean				4.784	10.52	32.10	67.14	22.02	32.76	460.6	7.08	0.0
Std Dev				0.095	0.41	0.97	2.22	1.03	0.44	132.8	1.13	0.0
SEM				0.042	0.19	0.43	0.99	0.46	0.20	59.4	0.51	0.0
89F00129	M	3	2	4.49	10.6	31.8	70.8	23.6	33.3	392	5.9	1
89F00147	M	3	2	3.74	8.7	25.8	68.9	23.3	33.7	371	5.9	0
89F00154	M	3	2	3.85	9.1	27.3	70.8	23.6	33.3	425	5.4	0
89F00172	M	3	2	4.49	10.4	31.2	69.5	23.2	33.3	597	8.6	0
89F00173	M	3	2	3.56	8.1	24.9	70.0	22.8	32.5	464	7.4	1
Mean				4.026	9.38	28.20	70.00	23.30	33.22	449.8	6.64	0.4
Std Dev				0.436	1.08	3.14	0.83	0.33	0.44	89.5	1.33	0.5
SEM				0.195	0.49	1.40	0.37	0.15	0.20	40.0	0.59	0.2

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00127	M	4	2	5.26	10.9	34.0	64.7	20.7	32.1	432	7.0	1
89F00131	M	4	2	4.86	11.4	34.7	71.5	23.5	32.9	538	6.1	0
89F00157	M	4	2	5.62	12.4	38.2	67.9	22.1	32.5	698	5.9	0
89F00169	M	4	2	4.26	10.1	28.9	67.8	23.7	34.9	475	7.7	0
89F00258	M	4	2	2.82	8.1	24.0	85.2	28.7	33.8	557	8.6	17
Mean				4.564	10.58	31.96	72.42	23.74	33.24	540.0	7.06	3.6
Std Dev				.1.098	1.62	5.55	8.07	3.02	1.12	101.4	1.12	7.5
SEM				0.491	0.72	2.48	3.61	1.35	0.50	45.4	0.50	3.4
89F00116	M	5	2	4.66	10.3	32.4	69.5	22.1	31.8	236	6.0	3
89F00128	M	5	2	4.98	10.7	32.8	65.8	21.5	32.6	120	6.2	0
89F00148	M	5	2	3.82	9.1	27.0	70.6	23.8	33.7	200	5.7	0
89F00259	M	5	2	4.07	9.1	26.4	64.8	22.4	34.5	323	6.2	9
89F00261	M	5	2	4.69	10.7	32.5	69.3	22.8	32.9	365	8.5	8
Mean				4.444	9.98	30.22	68.00	22.52	33.10	248.8	6.52	4.0
Std Dev				0.481	0.82	3.22	2.54	0.86	1.04	97.7	1.13	4.3
SEM				0.215	0.37	1.44	1.14	0.38	0.46	43.7	0.50	1.9
89F00120	M	6	2	5.09	10.7	33.1	65.0	21.0	32.2	464	5.1	0
89F00143	M	6	2	4.88	10.9	32.7	67.1	22.3	33.3	578	5.4	0
89F00149	M	6	2	4.12	9.2	27.5	66.8	22.3	33.5	633	6.2	2
89F00177	M	6	2	4.33	10.2	30.0	69.2	23.6	34.0	491	7.5	0
89F00263	M	6	2	4.42	10.2	30.4	68.8	23.1	33.6	504	7.8	1
Mean				4.568	10.24	30.74	67.38	22.47	33.32	534.0	6.40	0.6
Std Dev				0.403	0.66	2.27	1.69	1.00	0.68	69.6	1.21	0.9
SEM				0.180	0.29	1.01	0.76	0.45	0.30	31.1	0.54	0.4

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00115	M	7	2	5.35	10.9	34.8	65.1	20.4	31.3	572	6.5	0
89F00137	M	7	2	4.71	10.4	32.1	68.1	22.1	32.4	323	6.8	0
89F00164	M	7	2	4.47	10.5	31.2	69.7	23.5	33.7	534	7.0	0
89F00171	M	7	2	4.44	9.9	29.4	66.3	22.3	33.7	618	6.9	0
89F00264	M	7	2	4.20	9.3	27.4	65.2	22.1	33.9	534	8.0	7
Mean				4.634	10.20	30.98	66.98	22.08	33.00	516.2	7.04	1.4
Std Dev				0.439	0.62	2.79	1.99	1.11	1.12	113.4	0.57	3.1
SEM				0.196	0.28	1.25	0.89	0.49	0.50	50.7	0.25	1.4
89F00125	M	8	2	4.66	11.2	33.8	72.6	24.0	33.1	463	5.8	3
89F00145	M	8	2	4.38	9.6	29.9	68.2	21.9	32.1	472	5.3	0
89F00158	M	8	2	4.59	10.4	30.7	66.9	22.7	33.9	423	6.5	0
89F00165	M	8	2	5.00	11.2	33.5	67.0	22.4	33.4	552	6.8	0
89F00266	M	8	2	3.68	7.7	23.1	62.7	20.9	33.3	476	11.1	25
Mean				4.462	10.02	30.20	67.48	22.38	33.16	477.2	7.10	5.6
Std Dev				0.491	1.46	4.32	3.54	1.13	0.66	46.8	2.31	10.9
SEM				0.219	0.65	1.93	1.58	0.51	0.30	20.9	1.03	4.9
89F00121	M	9	2	3.81	9.2	27.6	72.4	24.1	33.3	476	6.6	4
89F00139	M	9	2	4.80	10.2	31.7	66.0	21.3	32.2	341	5.7	1
89F00151	M	9	2	4.25	10.1	29.7	69.8	23.8	34.0	519	6.0	7
89F00156	M	9	2	4.61	10.1	29.3	63.6	21.9	34.5	391	5.9	0
89F00267	M	9	2	3.87	9.4	26.9	69.4	24.3	34.9	537	8.4	8
Mean				4.268	9.80	29.04	68.24	23.08	33.78	452.8	6.52	4.0
Std Dev				0.438	0.46	1.89	3.45	1.38	1.07	84.2	1.10	3.5
SEM				0.196	0.21	0.84	1.54	0.62	0.48	37.6	0.49	1.6

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	HAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00124	M	10	2	10.1	39	0	0	0	59	1	1	5.0	23.2
89F00136	M	10	2	16.8	50	0	0	0	49	0	1	5.6	TNTC
89F00142	M	10	2	9.9	67	0	0	0	31	2	0	7.0	72.6
89F00168	M	10	2	6.9	30	0	0	0	68	0	2	5.8	TNTC
89F00175	M	10	2	9.8	18	0	0	0	80	0	2	4.8	TNTC
Mean				10.70	40.8	0.0	0.0	0.0	57.4	0.6	1.2	5.64	109.16
Std Dev				3.66	18.8	0.0	0.0	0.0	18.7	0.9	0.8	0.86	58.59
SEM				1.63	8.4	0.0	0.0	0.0	8.3	0.4	0.4	0.39	26.20

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
Number													
89F00126	M	1	2	10.0	41	0	0	0	58	1	0	6.0	TNTC
89F00130	M	1	2	9.2	59	0	0	0	36	0	5	7.8	TNTC
89F00140	M	1	2	7.9	30	0	0	0	69	1	0	7.0	44.8
89F00155	M	1	2	8.9	65	0	0	0	32	0	3	3.2	TNTC
89F00166	M	1	2	9.8	23	0	0	0	74	0	3	5.2	TNTC
Mean				9.16	43.6	0.0	0.0	0.0	53.8	0.4	2.2	5.84	128.96
Std Dev				0.83	18.1	0.0	0.0	0.0	19.0	0.5	2.2	1.77	47.05
SEM				0.37	8.1	0.0	0.0	0.0	8.5	0.2	1.0	0.79	21.04
89F00118	M	2	2	6.0	51	0	0	0	45	1	3	5.4	24.3
89F00132	M	2	2	8.7	21	0	0	0	78	1	0	6.8	18.0
89F00141	M	2	2	6.8	50	0	0	0	49	1	0	6.3	30.0
89F00176	M	2	2	6.6	47	0	0	0	50	0	3	6.8	TNTC
89F00257	M	2	2	9.0	36	0	0	0	60	2	2	6.1	38.7
Mean				7.42	41.0	0.0	0.0	0.0	56.4	1.0	1.6	6.28	52.20
Std Dev				1.34	12.7	0.0	0.0	0.0	13.3	0.7	1.5	0.58	55.20
SEM				0.60	5.7	0.0	0.0	0.0	5.9	0.3	0.7	0.26	24.69
89F00129	M	3	2	7.6	53	0	0	0	47	0	0	5.8	TNTC
89F00147	M	3	2	4.9	36	0	0	0	62	0	2	5.0	TNTC
89F00154	M	3	2	7.1	31	0	0	0	68	0	1	5.8	TNTC
89F00172	M	3	2	7.3	45	0	2	0	48	0	5	6.2	TNTC
89F00173	M	3	2	9.1	44	0	0	0	56	0	0	4.2	TNTC
Mean				7.20	41.8	0.0	0.4	0.0	56.2	0.0	1.6	5.40	150.00
Std Dev				1.51	8.5	0.0	0.9	0.0	9.0	0.0	2.1	0.80	0.00
SEM				0.67	3.8	0.0	0.4	0.0	4.0	0.0	0.9	0.36	0.00

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00127	M	4	2	11.2	37	0	0	0	56	1	6	6.0	58.6
89F00131	M	4	2	8.8	29	0	0	0	70	0	1	7.2	TNTC
89F00157	M	4	2	7.0	35	0	0	0	64	1	0	5.8	TNTC
89F00169	M	4	2	10.6	43	0	0	0	56	0	1	6.0	TNTC
89F00258	M	4	2	10.6	47	0	0	0	48	0	5	9.5	TNTC
Mean				9.64	38.2	0.0	0.0	0.0	58.8	0.4	2.6	6.90	131.72
Std Dev				1.73	7.0	0.0	0.0	0.0	8.4	0.5	2.7	1.56	40.88
SEM				0.77	3.1	0.0	0.0	0.0	3.8	0.2	1.2	0.70	18.28
89F00116	M	5	2	11.0	57	0	1	0	38	3	1	7.3	TNTC
89F00128	M	5	2	12.7	49	0	0	0	45	1	5	5.8	TNTC
89F00148	M	5	2	12.7	30	0	0	0	69	0	1	4.3	30.9
89F00259	M	5	2	4.9	37	0	0	0	57	2	4	9.5	TNTC
89F00261	M	5	2	8.0	33	0	0	0	64	0	3	5.8	TNTC
Mean				9.86	41.2	0.0	0.2	0.0	54.6	1.2	2.8	6.54	126.18
Std Dev				3.37	11.4	0.0	0.4	0.0	12.9	1.3	1.8	1.97	53.26
SEM				1.51	5.1	0.0	0.2	0.0	5.8	0.6	0.8	0.88	23.82
89F00120	M	6	2	6.5	50	0	0	0	44	3	3	5.4	24.6
89F00143	M	6	2	16.1	51	0	0	0	44	4	1	6.0	25.3
89F00149	M	6	2	8.0	46	0	0	0	51	0	3	4.3	28.0
89F00177	M	6	2	8.2	31	0	0	0	67	0	2	7.0	TNTC
89F00263	M	6	2	8.6	28	0	0	0	67	1	4	4.4	1.2
Mean				9.48	41.2	0.0	0.0	0.0	54.6	1.6	2.6	5.42	45.82
Std Dev				3.79	10.9	0.0	0.0	0.0	11.7	1.8	1.1	1.13	59.23
SEM				1.69	4.9	0.0	0.0	0.0	5.2	0.8	0.5	0.51	26.49



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00115	M	7	2	8.6	57	0	1	0	33	5	4	6.2	86.2
89F00137	M	7	2	7.7	51	0	0	0	47	1	1	6.8	50.6
89F00164	M	7	2	9.8	41	0	0	0	56	1	2	4.8	TNTC
89F00171	M	7	2	10.5	32	0	0	0	62	3	3	5.6	TNTC
89F00264	M	7	2	8.2	37	0	0	0	60	1	2	4.4	TNTC
Mean				8.96	43.6	0.0	0.2	0.0	51.6	2.2	2.4	5.56	117.36
Std Dev				1.16	10.2	0.0	0.4	0.0	11.9	1.8	1.1	0.98	46.43
SEM				0.52	4.6	0.0	0.2	0.0	5.3	0.8	0.5	0.44	20.77
89F00125	M	8	2	10.1	32	0	0	0	65	1	2	7.5	TNTC
89F00145	M	8	2	9.5	34	0	0	0	66	0	0	6.5	TNTC
89F00158	M	8	2	12.1	43	0	0	0	57	0	0	5.6	TNTC
89F00165	M	8	2	8.1	39	0	0	0	61	0	0	2.1	1.8
89F00266	M	8	2	8.1	46	0	0	0	52	0	2	5.2	TNTC
Mean				9.58	38.8	0.0	0.0	0.0	60.2	0.2	0.8	5.38	120.36
Std Dev				1.66	5.9	0.0	0.0	0.0	5.8	0.4	1.1	2.04	66.28
SEM				0.74	2.6	0.0	0.0	0.0	2.6	0.2	0.5	0.91	29.64
89F00121	M	9	2	12.7	58	0	0	0	41	1	0	5.5	47.1
89F00139	M	9	2	10.4	44	0	0	0	55	1	0	7.3	97.8
89F00151	M	9	2	7.9	67	0	0	0	32	0	1	5.2	TNTC
89F00156	M	9	2	13.5	55	0	0	0	44	1	0	5.9	TNTC
89F00267	M	9	2	9.9	27	0	0	0	71	1	1	5.2	48.5
Mean				10.88	50.2	0.0	0.0	0.0	48.6	0.8	0.4	5.64	98.68
Std Dev				2.25	15.4	0.0	0.0	0.0	15.0	0.4	0.5	0.94	51.10
SEM				1.01	6.9	0.0	0.0	0.0	6.7	0.2	0.2	0.42	22.85

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00124	M	10	3	4.11	9.5	28.7	69.9	23.1	33.1	407	6.5	4
89F00136	M	10	3	4.46	10.7	30.6	68.7	24.0	35.0	795	7.4	0
89F00142	M	10	3	5.18	11.5	35.3	68.1	22.2	32.6	424	6.6	0
89F00168	M	10	3	3.96	9.1	27.2	68.8	23.0	33.5	508	8.6	0
89F00175	M	10	3	4.22	10.8	31.8	75.4	25.6	34.0	389	8.1	0
Mean				4.386	10.32	30.72	70.18	23.58	33.64	504.6	7.44	0.8
Std Dev				0.480	0.99	3.11	2.99	1.30	0.92	168.6	0.92	1.8
SEM				0.215	0.44	1.39	1.34	0.58	0.41	75.4	0.41	0.8

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00126	M	1	3	5.24	11.2	35.6	67.9	21.4	31.5	452	5.7	3
89F00130	M	1	3	4.47	10.2	29.8	66.7	22.8	34.2	321	8.5	0
89F00140	M	1	3	4.06	9.6	29.9	73.7	23.6	32.1	212	6.8	1
89F00155	M	1	3	4.28	9.4	27.9	65.1	22.0	33.7	562	7.4	0
89F00166	M	1	3	4.22	10.1	30.0	71.1	23.9	33.7	417	8.2	0
Mean				4.454	10.10	30.64	68.90	22.74	33.04	392.8	7.32	0.8
Std Dev				0.463	0.70	2.91	3.47	1.05	1.17	132.8	1.13	1.3
SEM				0.207	0.31	1.30	1.55	0.47	0.52	59.4	0.50	0.6
89F00118	M	2	3	4.60	9.9	30.5	66.4	21.5	32.5	268	6.0	0
89F00132	M	2	3	4.63	9.4	30.6	66.1	20.3	30.7	305	6.7	0
89F00141	M	2	3	4.33	10.1	30.9	71.4	23.3	32.7	439	6.1	0
89F00176	M	2	3	4.26	10.4	29.4	69.1	23.7	34.4	539	7.2	0
89F00257	M	2	3	4.46	10.0	29.7	66.5	22.4	33.7	518	8.8	2
Mean				4.456	9.96	30.22	67.90	22.24	32.80	413.8	6.96	0.4
Std Dev				0.162	0.36	0.64	2.30	1.38	1.40	122.7	1.14	0.9
SEM				0.073	0.16	0.29	1.03	0.62	0.63	54.9	0.51	0.4
89F00129	M	3	3	4.16	9.8	29.4	70.7	23.6	33.3	382	6.9	0
89F00147	M	3	3	3.62	8.5	25.3	69.8	23.5	33.6	437	8.6	1
89F00154	M	3	3	3.30	8.0	24.1	73.1	24.2	33.2	312	8.3	0
89F00172	M	3	3	4.08	9.5	28.2	69.2	23.3	33.7	504	7.4	0
89F00173	M	3	3	3.54	8.3	24.9	70.4	23.4	33.3	548	7.5	0
Mean				3.740	8.82	26.38	70.64	23.60	33.42	436.6	7.74	0.2
Std Dev				0.367	0.79	2.29	1.49	0.35	0.22	94.2	0.69	0.4
SEM				0.164	0.35	1.02	0.67	0.16	0.10	42.1	0.31	0.2

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00127	M	4	3	4.63	9.9	30.5	65.9	21.4	32.5	439	6.3	0
89F00131	M	4	3	5.06	11.6	35.7	70.5	22.9	32.5	507	6.2	1
89F00157	M	4	3	5.85	13.3	40.3	68.9	22.7	33.0	837	7.2	0
89F00169	M	4	3	4.65	10.4	31.5	67.7	22.4	33.0	582	8.8	0
89F00258	M	4	3	2.89	8.1	24.2	83.8	28.0	33.5	334	10.5	21
Mean				4.617	10.66	32.44	71.36	23.48	32.90	539.8	7.80	4.4
Std Dev				1.084	1.94	6.02	7.15	2.59	0.42	189.5	1.83	9.3
SEM				0.485	0.87	2.69	3.20	1.16	0.19	84.8	0.82	4.2
89F00116	M	5	3	4.88	10.7	34.4	70.5	21.9	31.1	256	6.2	0
89F00128	M	5	3	4.69	10.2	31.2	66.5	21.7	32.7	122	6.0	0
89F00148	M	5	3	3.73	9.6	27.1	72.7	25.7	35.4	249	8.0	3
89F00259	M	5	3	3.85	8.3	24.9	64.8	21.6	33.3	451	8.7	2
89F00261	M	5	3	4.43	10.1	31.0	69.9	22.8	32.6	347	10.4	10
Mean				4.316	9.78	29.72	68.88	22.74	33.02	285.0	7.86	3.0
Std Dev				0.508	0.91	3.74	3.18	1.72	1.56	122.6	1.83	4.1
SEM				0.227	0.41	1.67	1.42	0.77	0.70	54.8	0.82	1.8
89F00120	M	6	3	4.16	9.6	28.3	68.1	23.1	33.9	421	4.7	5
89F00143	M	6	3	4.98	10.8	33.0	66.2	21.7	32.7	836	6.0	0
89F00149	M	6	3	4.14	9.8	28.3	68.3	23.7	34.6	685	7.9	1
89F00177	M	6	3	4.34	10.3	30.1	69.4	23.7	34.2	480	7.3	0
89F00263	M	6	3	4.37	10.3	30.3	69.3	23.6	34.0	448	7.8	2
Mean				4.398	10.16	30.00	68.26	23.16	33.88	574.0	6.74	1.6
Std Dev				0.341	0.47	1.93	1.29	0.85	0.71	179.6	1.37	2.1
SEM				0.153	0.21	0.86	0.58	0.38	0.32	80.3	0.61	0.9

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00115	M	7	3	4.93	10.6	32.3	65.6	21.5	32.8	427	6.0	0
89F00137	M	7	3	4.59	10.1	31.4	68.5	22.0	32.2	289	6.5	0
89F00164	M	7	3	4.39	10.3	30.9	70.4	23.5	33.3	606	7.8	0
89F00171	M	7	3	3.89	8.7	25.9	66.7	22.4	33.6	520	8.1	2
89F00264	M	7	3	4.15	8.7	27.3	65.7	21.0	31.9	479	8.8	9
Mean				4.390	9.68	29.56	67.38	22.08	32.76	464.2	7.44	2.2
Std Dev				0.400	0.91	2.79	2.05	0.95	0.72	117.8	1.16	3.9
SEM				0.179	0.41	1.25	0.92	0.43	0.32	52.7	0.52	1.7
89F00125	M	8	3	4.55	10.5	33.2	73.0	23.1	31.6	393	5.6	3
89F00145	M	8	3	4.25	9.3	28.8	67.8	21.9	32.3	475	6.6	0
89F00158	M	8	3	4.31	9.9	29.3	68.0	23.0	33.8	449	8.8	0
89F00165	M	8	3	4.44	10.4	29.8	67.2	23.4	34.9	314	8.8	0
89F00266	M	8	3	3.71	7.7	23.2	62.4	20.8	33.2	387	11.9	25
Mean				4.252	9.56	28.86	67.68	22.44	33.16	403.6	8.34	5.6
Std Dev				0.325	1.14	3.60	3.76	1.08	1.29	62.4	2.43	10.9
SEM				0.145	0.51	1.61	1.68	0.48	0.57	27.9	1.09	4.9
89F00121	M	9	3	3.28	8.2	24.3	74.2	25.0	33.7	361	5.6	2
89F00139	M	9	3	4.47	9.5	29.6	66.2	21.3	32.1	330	6.7	0
89F00151	M	9	3	4.01	9.3	28.2	70.2	23.2	33.0	290	8.5	0
89F00156	M	9	3	4.42	9.5	28.2	63.7	21.5	33.7	397	8.1	0
89F00267	M	9	3	4.12	9.8	28.9	70.1	23.8	33.9	592	8.2	3
Mean				4.060	9.26	27.84	68.88	22.96	33.28	394.0	7.42	1.0
Std Dev				0.478	0.62	2.06	4.05	1.57	0.74	117.5	1.23	1.4
SEM				0.214	0.28	0.92	1.81	0.70	0.33	52.5	0.55	0.6

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	RAV	EOS	BAS	LYM	MON	PLT	APPT
89F00124	M	10	3	7.6	66	0	0	0	33	1	6.3	22.2
89F00136	M	10	3	9.9	34	0	0	0	62	1	5.2	TNTC
89F00142	M	10	3	9.0	29	0	0	0	71	0	8.2	129.4
89F00168	M	10	3	8.7	29	0	0	0	69	0	5.8	TNTC
89F00175	M	10	3	7.7	36	0	0	0	62	0	NT	NT
Mean				8.58	38.8	0.0	0.0	0.0	59.4	0.4	6.38	112.90
Std Dev				0.96	15.5	0.0	0.0	0.0	15.3	0.5	1.30	61.24
SEM				0.43	6.9	0.0	0.0	0.0	6.8	0.2	0.65	30.62

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
Number													
89F00126	M	1	3	9.9	37	0	0	0	63	0	0	6.2	28.3
89F00130	M	1	3	9.7	31	0	0	0	66	3	0	NT	NT
89F00140	M	1	3	8.0	48	0	0	0	52	0	0	7.8	TNTC
89F00155	M	1	3	10.8	66	0	0	0	32	0	2	5.8	TNTC
89F00166	M	1	3	10.2	22	0	0	0	78	1	0	NT	NT
Mean				9.72	40.8	0.0	0.0	0.0	58.2	0.8	0.4	6.60	109.43
Std Dev				1.05	17.0	0.0	0.0	0.0	17.3	1.3	0.9	1.06	70.26
SEM				0.47	7.6	0.0	0.0	0.0	7.7	0.6	0.4	0.61	40.57
89F00118	M	2	3	5.4	21	0	0	0	78	0	1	6.0	25.8
89F00132	M	2	3	7.4	35	0	0	0	62	0	3	7.0	TNTC
89F00141	M	2	3	8.5	38	0	0	0	61	0	1	7.8	TNTC
89F00176	M	2	3	6.5	52	0	0	0	46	0	2	NT	NT
89F00257	M	2	3	6.0	60	0	0	0	38	2	0	10.6	TNTC
Mean				6.76	41.2	0.0	0.0	0.0	57.0	0.4	1.4	7.85	118.95
Std Dev				1.22	15.2	0.0	0.0	0.0	15.5	0.9	1.1	1.98	62.10
SEM				0.54	6.8	0.0	0.0	0.0	6.9	0.4	0.5	0.99	31.05
89F00129	M	3	3	6.0	32	0	0	0	67	1	0	6.3	TNTC
89F00147	M	3	3	6.1	59	0	0	0	41	0	0	6.8	TNTC
89F00154	M	3	3	7.7	59	0	0	0	39	0	2	3.2	TNTC
89F00172	M	3	3	6.7	38	0	0	0	61	0	1	NT	NT
89F00173	M	3	3	7.1	57	0	0	0	42	1	0	NT	NT
Mean				6.72	49.0	0.0	0.0	0.0	50.0	0.4	0.6	5.43	150.00
Std Dev				0.71	13.0	0.0	0.0	0.0	13.0	0.5	0.9	1.95	0.00
SEM				0.32	5.8	0.0	0.0	0.0	5.8	0.2	0.4	0.98	0.00

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00127	M	4	3	11.1	28	0	0	0	72	0	0	6.5	44.6
89F00131	M	4	3	8.8	21	0	0	0	76	2	1	7.0	29.7
89F00157	M	4	3	8.6	50	0	0	0	47	2	1	2.5	TNTC
89F00169	M	4	3	11.1	60	0	0	0	36	0	4	NT	NT
89F00258	M	4	3	11.2	17	0	0	0	83	0	0	10.2	TNTC
Mean				10.16	35.2	0.0	0.0	0.0	62.8	0.8	1.2	6.55	93.58
Std Dev				1.34	18.8	0.0	0.0	0.0	20.2	1.1	1.6	3.16	65.44
SEM				0.60	8.4	0.0	0.0	0.0	9.0	0.5	0.7	1.58	29.26
89F00116	M	5	3	7.8	62	0	0	0	27	2	9	6.8	83.8
89F00128	M	5	3	10.2	16	0	0	0	84	0	0	6.6	TNTC
89F00148	M	5	3	16.2	40	0	0	0	56	1	3	4.6	TNTC
89F00259	M	5	3	7.7	25	0	1	0	73	1	0	11.8	TNTC
89F00261	M	5	3	9.6	34	0	0	0	60	2	4	10.5	TNTC
Mean				10.30	35.4	0.0	0.2	0.0	60.0	1.2	3.2	8.06	136.76
Std Dev				3.48	17.4	0.0	0.4	0.0	21.5	0.8	3.7	2.98	29.61
SEM				1.55	7.8	0.0	0.2	0.0	9.6	0.4	1.7	1.33	13.24
89F00120	M	6	3	8.7	32	0	0	0	64	2	2	6.8	TNTC
89F00143	M	6	3	11.9	59	0	0	0	40	0	1	5.8	44.9
89F00149	M	6	3	8.1	46	0	0	0	46	1	7	4.3	TNTC
89F00177	M	6	3	9.1	42	0	0	0	54	1	3	NT	NT
89F00263	M	6	3	7.2	49	0	0	0	50	0	1	9.2	TNTC
Mean				9.00	45.6	0.0	0.0	0.0	50.8	0.8	2.8	6.53	123.73
Std Dev				1.77	9.9	0.0	0.0	0.0	9.0	0.8	2.5	2.06	52.55
SEM				0.79	4.4	0.0	0.0	0.0	4.0	0.4	1.1	1.03	26.28



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00115	M	7	3	4.7	27	0	0	0	73	0	0	6.5	28.2
89F00137	M	7	3	7.8	45	0	1	0	51	2	1	12.2	23.6
89F00164	M	7	3	9.4	25	0	0	0	26	0	4	NT	NT
89F00171	M	7	3	11.7	34	0	0	0	65	0	1	NT	NT
89F00264	M	7	3	8.3	24	0	0	0	76	0	0	9.2	TNTC
Mean				8.38	31.0	0.0	0.2	0.0	58.2	0.4	1.2	9.30	67.27
Std Dev				2.55	8.7	0.0	0.4	0.0	20.4	0.9	1.6	2.85	71.69
SEM				1.14	3.9	0.0	0.2	0.0	9.1	0.4	0.7	1.65	41.39
89F00125	M	8	3	8.7	29	0	0	0	70	1	0	7.3	TNTC
89F00145	M	8	3	6.9	47	0	0	0	49	0	4	8.4	TNTC
89F00158	M	8	3	10.2	51	0	0	0	45	3	1	7.6	TNTC
89F00165	M	8	3	7.0	32	0	0	0	67	0	1	NT	NT
89F00266	M	8	3	5.9	38	0	1	0	60	1	0	10.0	TNTC
Mean				7.74	39.4	0.0	0.2	0.0	58.2	1.0	1.2	8.33	150.00
Std Dev				1.70	9.4	0.0	0.4	0.0	10.9	1.2	1.6	1.21	0.00
SEM				0.76	4.2	0.0	0.2	0.0	4.9	0.5	0.7	0.60	0.00
89F00121	M	9	3	9.9	71	0	0	0	29	0	0	6.5	35.0
89F00139	M	9	3	10.1	46	0	0	0	53	1	0	8.4	TNTC
89F00151	M	9	3	7.3	41	0	0	0	55	2	2	10.0	TNTC
89F00156	M	9	3	11.5	63	0	0	0	36	1	0	7.2	TNTC
89F00267	M	9	3	7.2	41	0	0	0	55	2	2	9.8	TNTC
Mean				9.20	52.4	0.0	0.0	0.0	45.6	1.2	0.8	8.38	127.00
Std Dev				1.88	13.8	0.0	0.0	0.0	12.2	0.8	1.1	1.55	51.43
SEM				0.84	6.2	0.0	0.0	0.0	5.5	0.4	0.5	0.69	23.00

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00124	M	10	7	4.44	10.7	31.6	71.1	24.1	33.9	534	6.0	0
89F00136	M	10	7	5.34	11.6	35.7	66.9	21.7	32.5	844	7.4	0
89F00142	M	10	7	5.18	11.4	34.9	67.3	22.0	32.7	446	6.5	0
89F00168	M	10	7	4.26	9.9	30.2	71.0	23.2	32.8	401	7.5	0
89F00175	M	10	7	3.90	10.1	30.0	76.8	25.9	33.7	645	8.9	0
Mean				4.624	10.74	32.48	70.62	23.38	33.12	574.0	7.26	0.0
Std Dev				0.615	0.76	2.66	3.98	1.70	0.63	177.4	1.11	0.0
SEM				0.275	0.34	1.19	1.78	0.76	0.28	79.3	0.50	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00126	M	1	7	4.24	10.2	30.7	72.4	24.1	33.2	450	5.8	0
89F00130	M	1	7	4.76	10.5	32.1	67.4	22.1	32.7	117	8.7	0
89F00140	M	1	7	3.90	10.1	29.2	74.8	25.9	34.6	194	5.8	0
89F00155	M	1	7	4.30	9.2	27.6	64.2	21.4	33.3	494	7.5	0
89F00166	M	1	7	3.79	9.5	28.3	74.7	25.1	33.6	360	5.9	0
Mean				4.198	9.90	29.58	70.70	23.72	33.48	323.0	6.74	0.0
Std Dev				0.382	0.53	1.82	4.71	1.92	0.70	162.6	1.31	0.0
SEM				0.171	0.24	0.82	2.11	0.86	0.32	72.7	0.59	0.0
89F00118	M	2	7	4.44	9.8	29.4	66.3	22.1	33.3	488	5.8	0
89F00132	M	2	7	3.99	8.9	26.6	66.6	22.3	33.5	596	6.0	1
89F00141	M	2	7	4.24	10.5	30.9	72.8	24.8	34.0	371	6.1	0
89F00176	M	2	7	4.47	10.5	32.0	71.6	23.5	32.8	418	5.6	1
89F00257	M	2	7	4.56	10.1	31.1	68.1	22.1	32.5	481	9.4	0
Mean				4.340	9.96	30.00	69.08	22.96	33.22	470.8	6.58	0.4
Std Dev				0.228	0.66	2.12	2.96	1.18	0.59	84.9	1.59	0.5
SEM				0.102	0.30	0.95	1.32	0.53	0.26	38.0	0.71	0.2
89F00129	M	3	7	3.53	8.7	24.7	69.9	24.6	35.2	274	5.7	0
89F00147	M	3	7	3.80	8.7	26.9	70.7	22.9	32.3	308	7.1	0
89F00154	M	3	7	2.75	7.0	21.8	79.3	25.5	32.1	422	7.9	0
89F00172	M	3	7	3.77	8.7	26.6	70.6	23.1	32.7	385	8.3	0
89F00173	M	3	7	2.87	6.7	21.2	73.7	23.3	31.6	575	5.1	0
Mean				3.344	7.96	24.24	72.84	23.88	32.78	392.8	6.82	0.0
Std Dev				0.500	1.02	2.65	3.90	1.12	1.41	117.7	1.38	0.0
SEM				0.224	0.46	1.18	1.74	0.50	0.63	52.6	0.62	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00127	M	4	7	4.76	10.5	31.7	66.6	22.1	33.1	400	5.9	2
89F00131	M	4	7	4.44	10.5	31.1	70.0	23.6	33.8	485	6.7	0
89F00157	M	4	7	6.21	14.0	42.6	68.6	22.5	32.9	589	8.0	0
89F00169	M	4	7	4.24	10.1	29.6	69.8	23.8	34.1	520	6.7	0
89F00258	M	4	7	3.28	8.6	25.4	77.5	26.2	33.9	772	10.0	0
Mean				4.586	10.74	32.08	70.50	23.64	33.56	553.2	7.46	0.4
Std Dev				1.062	1.98	6.37	4.14	1.60	0.53	140.0	1.61	0.9
SEM				0.475	0.89	2.85	1.85	0.72	0.24	62.6	0.72	0.4
89F00116	M	5	7	4.69	10.8	33.1	70.6	23.0	32.6	258	5.8	0
89F00128	M	5	7	4.81	10.8	32.1	66.8	22.5	33.6	131	5.9	0
89F00148	M	5	7	4.03	9.6	29.4	72.9	23.8	32.7	304	8.6	0
89F00259	M	5	7	3.67	8.1	24.4	66.6	22.1	33.2	869	10.6	0
89F00261	M	5	7	3.78	8.7	25.8	68.3	23.0	33.7	726	8.6	2
Mean				4.196	9.60	28.96	69.04	22.88	33.16	457.6	7.90	0.4
Std Dev				0.524	1.22	3.81	2.69	0.64	0.50	320.7	2.04	0.9
SEM				0.234	0.54	1.70	1.20	0.29	0.22	143.4	0.91	0.4
89F00120	M	6	7	4.57	10.1	30.4	66.6	22.1	33.2	488	6.2	0
89F00143	M	6	7	5.02	11.1	33.2	66.2	22.1	33.4	809	6.3	0
89F00149	M	6	7	4.51	10.1	30.5	67.7	22.4	33.1	368	7.8	0
89F00177	M	6	7	4.64	10.6	32.6	70.2	22.8	32.5	475	6.1	0
89F00263	M	6	7	3.73	8.5	25.9	69.2	22.8	32.9	701	9.8	0
Mean				4.494	10.08	30.52	67.98	22.44	33.02	568.2	7.24	0.0
Std Dev				0.471	0.98	2.87	1.70	0.35	0.34	180.8	1.59	0.0
SEM				0.211	0.44	1.28	0.76	0.16	0.15	80.9	0.71	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00115	M	7	7	4.73	10.3	31.4	66.3	21.8	32.8	370	6.0	0
89F00137	M	7	7	4.20	9.8	29.3	69.8	23.3	33.4	353	6.4	0
89F00164	M	7	7	3.37	8.0	24.5	72.6	23.7	32.7	571	7.8	4
89F00171	M	7	7	3.96	9.0	27.8	70.3	22.7	32.4	437	8.7	0
89F00264	M	7	7	4.43	9.3	29.5	66.5	21.0	31.5	573	10.2	2
Mean				4.138	9.28	28.50	69.10	22.50	32.56	460.8	7.82	1.2
Std Dev				0.515	0.87	2.58	2.68	1.10	0.69	106.3	1.72	1.8
SEM				0.236	0.39	1.15	1.20	0.49	0.31	47.5	0.77	0.8
89F00125	M	8	7	4.59	10.9	33.8	73.6	23.7	32.2	317	6.2	0
89F00145	M	8	7	4.01	9.3	27.5	68.7	23.2	33.8	488	5.9	0
89F00158	M	8	7	4.08	9.3	28.6	70.1	22.8	32.5	296	8.3	0
89F00165	M	8	7	4.20	9.9	29.4	69.9	23.6	33.7	296	8.1	0
89F00266	M	8	7									
Mean				4.220	9.85	29.83	70.58	23.33	33.05	349.3	7.13	0.0
Std Dev				0.259	0.75	2.76	2.11	0.41	0.82	93.0	1.25	0.0
SEM				0.129	0.38	1.38	1.05	0.21	0.41	46.5	0.63	0.0
89F00121	M	9	7	3.48	8.3	25.8	74.0	23.9	32.2	568	5.7	1
89F00139	M	9	7	4.19	9.4	28.2	67.4	22.4	33.3	271	6.5	1
89F00151	M	9	7	3.56	8.7	26.5	74.3	24.4	32.8	501	8.0	0
89F00156	M	9	7	3.52	7.7	23.4	66.4	21.9	32.9	433	7.8	0
89F00267	M	9	7	3.40	8.2	24.8	72.9	24.1	33.1	491	9.9	2
Mean				3.630	8.46	25.74	71.00	23.34	32.86	452.8	7.58	0.8
Std Dev				0.319	0.63	1.80	3.80	1.11	0.42	112.4	1.61	0.8
SEM				0.142	0.28	0.81	1.70	0.50	0.19	50.2	0.72	0.4

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00124	M	10	7	8.9	53	0	0	0	44	1	2	7.8	67.4
89F00136	M	10	7	7.7	44	0	0	0	48	2	6	5.8	42.8
89F00142	M	10	7	11.0	36	0	0	0	63	0	1	9.8	TNTC
89F00168	M	10	7	7.1	21	0	0	0	75	2	2	6.3	TNTC
89F00175	M	10	7	13.3	30	0	0	0	69	1	0	8.3	TNTC
Mean				9.60	36.8	0.0	0.0	0.0	59.8	1.2	2.2	7.60	112.04
Std Dev				2.55	12.4	0.0	0.0	0.0	13.4	0.8	2.3	1.60	52.70
SEM				1.14	5.5	0.0	0.0	0.0	6.0	0.4	1.0	0.72	23.57

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00126	M	1	7	7.9	24	0	0	0	74	0	2	5.6	TNTC
89F00130	M	1	7	4.6	44	0	0	0	56	0	0	8.2	67.5
89F00140	M	1	7	6.0	50	0	0	0	49	0	1	11.6	TNTC
89F00155	M	1	7	8.2	33	0	0	0	65	1	1	8.3	TNTC
89F00166	M	1	7	6.3	43	0	0	0	53	2	2	11.2	TNTC
Mean				6.60	38.8	0.0	0.0	0.0	59.4	0.6	1.2	8.98	133.50
Std Dev				1.47	10.3	0.0	0.0	0.0	10.1	0.9	0.8	2.46	36.90
SEM				0.66	4.6	0.0	0.0	0.0	4.5	0.4	0.4	1.10	16.50
89F00118	M	2	7	8.9	29	0	0	0	71	0	0	5.8	87.2
89F00132	M	2	7	6.8	30	0	0	0	70	0	0	14.0	TNTC
89F00141	M	2	7	5.3	40	0	0	0	60	0	0	9.5	39.2
89F00176	M	2	7	4.8	46	0	0	0	52	2	0	7.0	TNTC
89F00257	M	2	7	10.3	56	0	0	0	42	1	1	7.3	TNTC
Mean				7.22	40.2	0.0	0.0	0.0	59.0	0.6	0.2	8.72	115.28
Std Dev				2.35	11.3	0.0	0.0	0.0	12.3	0.9	0.4	3.24	50.48
SEM				1.05	5.1	0.0	0.0	0.0	5.5	0.4	0.2	1.45	22.58
89F00129	M	3	7	5.9	43	0	0	0	54	0	3	8.8	TNTC
89F00147	M	3	7	4.5	37	0	0	0	62	0	1	6.5	40.8
89F00154	M	3	7	6.2	32	0	0	0	66	0	2	5.6	TNTC
89F00172	M	3	7	6.1	63	0	0	0	32	2	4	7.2	TNTC
89F00173	M	3	7	3.7	70	0	0	0	29	1	0	7.2	TNTC
Mean				5.28	49.0	0.0	0.0	0.0	48.6	0.6	2.0	7.06	128.16
Std Dev				1.12	16.6	0.0	0.0	0.0	17.1	0.9	1.6	1.17	48.84
SEM				0.50	7.4	0.0	0.0	0.0	7.7	0.4	0.7	0.52	21.84

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APFT
89F00127	M	4	7	10.4	63	0	0	0	36	0	1	10.8	TNTC
89F00131	M	4	7	9.2	46	0	0	0	54	0	0	8.9	TNTC
89F00157	M	4	7	4.5	36	0	0	0	59	2	3	5.8	23.9
89F00169	M	4	7	9.7	40	0	0	0	56	2	2	8.8	TNTC
89F00258	M	4	7	8.1	51	0	0	0	46	3	0	6.4	TNTC
Mean				8.38	47.2	0.0	0.0	0.0	50.2	1.4	1.2	8.14	124.78
Std Dev				2.33	10.5	0.0	0.0	0.0	9.3	1.3	1.3	2.04	56.39
SEM				1.04	4.7	0.0	0.0	0.0	4.2	0.6	0.6	0.91	25.22
89F00116	M	5	7	8.9	40	0	0	0	58	1	1	7.3	TNTC
89F00128	M	5	7	9.5	29	0	0	0	69	1	1	7.3	63.4
89F00148	M	5	7	8.8	33	0	0	0	67	0	0	6.0	28.5
89F00259	M	5	7	9.9	47	0	0	0	47	5	1	5.5	TNTC
89F00261	M	5	7	7.6	71	0	0	0	26	3	0	3.0	NT
Mean				8.94	44.0	0.0	0.0	0.0	53.4	2.0	0.6	5.82	97.98
Std Dev				0.87	16.6	0.0	0.0	0.0	17.6	2.0	0.5	1.77	61.74
SEM				0.39	7.4	0.0	0.0	0.0	7.9	0.9	0.2	0.79	30.87
89F00120	M	6	7	9.1	48	0	1	0	49	0	2	6.3	TNTC
89F00143	M	6	7	6.9	53	0	0	0	42	1	4	6.3	40.2
89F00149	M	6	7	7.8	49	0	0	0	48	0	3	5.5	27.6
89F00177	M	6	7	5.3	31	0	0	0	63	0	6	7.0	35.0
89F00263	M	6	7	9.0	46	0	0	0	50	4	0	6.4	TNTC
Mean				7.62	45.4	0.0	0.2	0.0	50.4	1.0	3.0	6.30	80.56
Std Dev				1.58	8.4	0.0	0.4	0.0	7.7	1.7	2.2	0.53	63.55
SEM				0.71	3.8	0.0	0.2	0.0	3.4	0.8	1.0	0.24	28.42



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00115	M	7	7	6.7	27	0	0	0	69	0	4	7.2	TNTC
89F00137	M	7	7	9.2	64	0	1	0	32	2	1	7.2	81.1
89F00164	M	7	7	9.8	25	0	0	0	72	1	2	7.2	50.4
89F00171	M	7	7	6.9	32	0	0	0	67	0	1	9.3	TNTC
89F00264	M	7	7	8.5	28	0	0	0	69	2	1	10.0	26.4
Mean				8.22	35.2	0.0	0.2	0.0	61.8	1.0	1.8	8.18	91.58
Std Dev				1.38	16.3	0.0	0.4	0.0	16.8	1.0	1.3	1.36	56.74
SEM				0.62	7.3	0.0	0.2	0.0	7.5	0.4	0.6	0.61	25.38
89F00125	M	8	7	7.7	30	0	0	0	68	2	0	9.8	TNTC
89F00145	M	8	7	8.1	57	0	0	0	40	1	2	7.2	TNTC
89F00158	M	8	7	6.1	40	0	0	0	60	0	0	6.3	TNTC
89F00165	M	8	7	5.8	36	0	0	0	64	0	0	8.6	37.0
89F00266	M	8	7	died									
Mean				6.93	40.8	0.0	0.0	0.0	58.0	0.8	0.5	7.98	121.75
Std Dev				1.14	11.6	0.0	0.0	0.0	12.4	1.0	1.0	1.54	56.50
SEM				0.57	5.8	0.0	0.0	0.0	6.2	0.5	0.5	0.77	28.25
89F00121	M	9	7	7.0	60	0	1	0	40	0	0	6.4	51.4
89F00139	M	9	7	5.9	43	0	0	0	57	0	0	10.0	TNTC
89F00151	M	9	7	5.7	57	0	0	0	39	1	3	6.2	54.8
89F00156	M	9	7	9.4	58	0	0	0	39	1	2	5.2	62.3
89F00267	M	9	7	6.7	43	0	0	0	54	3	0	7.4	63.4
Mean				6.94	52.2	0.0	0.2	0.0	45.8	1.0	1.0	7.04	76.38
Std Dev				1.48	8.5	0.0	0.4	0.0	8.9	1.2	1.4	1.83	41.46
SEM				0.66	3.8	0.0	0.2	0.0	4.0	0.5	0.6	0.82	18.54

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00124	M	10	14	4.47	10.5	31.2	69.8	23.5	33.7	678	7.0	0
89F00136	M	10	14	4.77	10.3	31.7	66.5	21.6	32.5	822	9.3	7
89F00142	M	10	14	5.54	12.0	37.8	68.3	21.7	31.7	547	8.2	0
89F00168	M	10	14	4.92	10.5	32.8	66.7	21.3	32.0	868	8.1	0
89F00175	M	10	14	4.37	10.1	31.1	71.2	23.1	32.5	836	8.5	0
Mean				4.814	10.68	32.92	68.50	22.24	32.48	750.2	8.22	1.4
Std Dev				0.463	2.76	2.81	2.02	0.99	0.76	135.0	0.83	3.1
SEM				0.207	0.34	1.26	0.90	0.44	0.34	60.4	0.37	1.4

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
Number												
89F00126	M	1	14	4.21	10.3	30.7	72.9	24.5	33.6	454	6.9	0
89F00130	M	1	14	3.76	7.8	24.7	65.8	20.7	31.6	243	8.4	0
89F00140	M	1	14	3.52	9.3	26.4	75.0	26.4	35.2	250	5.2	0
89F00155	M	1	14	4.40	9.3	29.1	66.2	21.1	32.0	655	7.8	0
89F00166	M	1	14	3.82	8.7	26.9	70.3	22.8	32.3	915	8.6	0
Mean				3.942	9.08	27.56	70.04	23.10	32.94	503.4	7.38	0.0
Std Dev				0.356	0.92	2.36	4.05	2.38	1.47	285.9	1.39	0.0
SEM				0.159	0.41	1.05	1.81	1.07	0.66	127.8	0.62	0.0
89F00118	M	2	14	3.94	8.7	26.2	66.5	22.1	33.2	766	8.0	0
89F00132	M	2	14	4.14	9.3	27.7	67.0	22.5	33.6	492	8.8	0
89F00141	M	2	14	4.03	10.1	29.7	73.8	25.1	34.0	391	8.8	0
89F00176	M	2	14	4.12	10.1	30.0	72.7	24.5	33.7	273	8.3	0
89F00257	M	2	14	4.17	9.8	28.9	69.2	23.5	33.9	437	5.7	0
Mean				4.080	9.60	28.50	69.84	23.54	33.68	471.8	7.92	0.0
Std Dev				0.094	0.60	1.56	3.30	1.28	0.31	183.2	1.29	0.0
SEM				0.042	0.27	0.70	1.47	0.57	0.14	81.9	0.58	0.0
89F00129	M	3	14	3.24	7.8	23.7	73.0	24.1	32.9	581	6.3	0
89F00147	M	3	14	3.35	7.8	24.1	71.8	23.3	32.4	534	8.3	0
89F00154	M	3	14	died								
89F00172	M	3	14	2.97	7.3	22.2	74.7	24.6	32.9	321	8.0	0
89F00173	M	3	14	3.59	8.5	26.0	72.3	23.7	32.7	656	7.9	0
Mean				3.288	7.85	24.00	72.95	23.93	32.73	523.0	7.63	0.0
Std Dev				0.257	0.49	1.56	1.27	0.56	0.24	143.7	0.90	0.0
SEM				0.129	0.25	0.78	0.63	0.28	0.12	71.87	0.45	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00127	M	4	14	4.96	11.2	34.3	69.1	22.6	32.7	342	7.4	0
89F00131	M	4	14	5.04	11.6	35.6	70.7	23.0	32.6	792	8.9	0
89F00157	M	4	14	4.67	10.3	31.5	37.5	22.1	32.7	1477	8.9	0
89F00169	M	4	14	4.53	9.8	30.4	67.0	21.6	32.2	621	8.0	0
89F00258	M	4	14	4.37	9.6	30.4	69.5	22.0	31.6	657	8.1	0
Mean				4.714	10.50	32.44	62.76	22.26	32.36	777.8	8.26	0.0
Std Dev				0.283	0.87	2.38	14.18	0.55	0.47	423.7	0.64	0.0
SEM				0.127	0.39	1.06	6.34	0.24	0.21	189.5	0.29	0.0
89F00116	M	5	14	5.08	11.4	35.6	70.1	22.4	32.0	385	7.3	0
89F00128	M	5	14	5.12	11.1	34.1	66.6	21.7	32.6	230	7.2	0
89F00148	M	5	14	5.09	11.7	35.8	70.3	23.0	32.7	263	8.0	2
89F00259	M	5	14	4.94	9.8	30.2	61.2	19.8	32.5	667	8.1	0
89F00261	M	5	14	4.52	9.0	27.2	61.7	19.9	32.3	984	8.7	0
Mean				4.950	10.60	32.72	65.98	21.36	32.42	505.8	7.86	0.4
Std Dev				0.250	1.15	3.51	4.39	1.45	0.28	317.9	0.62	0.9
SEM				0.112	0.51	1.57	1.96	0.65	0.12	142.2	0.28	0.4
89F00120	M	6	14	4.47	10.4	30.3	67.8	23.3	34.3	325	7.3	0
89F00143	M	6	14	5.12	12.0	34.7	67.8	23.4	34.6	819	7.1	0
89F00149	M	6	14	4.07	9.1	27.4	67.2	22.4	33.2	642	8.6	0
89F00177	M	6	14	4.49	10.3	31.1	63.4	23.0	33.1	5	8.6	0
89F00263	M	6	14	3.34	7.2	21.2	63.4	21.6	34.0	1343	9.0	8
Mean				4.298	9.80	28.94	67.12	22.74	33.84	626.8	8.12	1.6
Std Dev				0.654	1.78	5.05	2.23	0.75	0.67	506.9	0.86	3.6
SEM				0.293	0.80	2.26	1.00	0.33	0.30	226.7	0.38	1.6

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00115	M	7	14	4.49	10.2	30.6	68.1	22.7	33.3	37	7.8	0
89F00137	M	7	14	4.24	9.9	30.2	71.3	23.3	32.8	369	7.5	0
89F00164	M	7	14	3.88	8.9	27.9	72.0	22.9	31.9	561	8.0	0
89F00171	M	7	14	3.55	8.0	25.2	71.0	22.5	31.7	704	8.4	1
89F00264	M	7	14	4.77	9.1	29.1	61.1	19.1	31.3	957	9.2	0
Mean				4.186	9.22	28.60	68.70	22.10	32.20	525.5	8.18	0.2
Std Dev				0.483	0.87	2.17	4.50	1.70	0.82	347.4	0.66	0.4
SEM				0.216	0.39	0.97	2.01	0.76	0.37	155.4	0.29	0.2
89F00125	M	8	14	4.21	10.3	31.5	74.9	24.5	32.7	545	7.3	0
89F00145	M	8	14	3.96	9.2	28.2	71.2	23.2	32.6	428	4.8	0
89F00158	M	8	14	died								
89F00165	M	8	14	3.43	8.1	23.3	68.0	23.6	34.8	505	8.6	0
89F00266	M	8	14	died								
Mean				3.867	9.20	27.67	71.37	23.77	33.37	492.7	6.90	0.0
Std Dev				0.398	1.10	4.13	3.45	0.67	1.24	59.5	1.93	0.0
SEM				0.230	0.64	2.38	1.99	0.38	0.72	34.3	1.12	0.0
89F00121	M	9	14	3.25	8.1	25.0	77.0	24.9	32.4	281	7.0	0
89F00139	M	9	14	3.90	9.2	27.4	70.2	23.6	33.6	200	8.0	0
89F00151	M	9	14	2.77	6.4	19.9	72.0	23.1	32.2	183	8.2	0
89F00156	M	9	14	3.85	7.9	25.3	65.7	20.5	31.2	486	8.9	0
89F00257	M	9	24	3.10	7.5	22.4	72.3	24.2	33.5	1154	9.0	0
Mean				3.374	7.82	24.00	71.44	23.26	32.58	460.8	8.22	0.0
Std Dev				0.490	1.01	2.90	4.08	1.68	1.00	405.8	0.81	0.0
SEM				0.219	0.45	1.30	1.82	0.75	0.45	181.5	0.36	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00124	M	10	14	10.3	51	0	0	0	45	1	3	7.0	56.0
89F00136	M	10	14	15.0	46	0	1	0	48	1	4	8.8	35.4
89F00142	M	10	14	11.0	34	0	0	0	66	0	0	8.2	TNTC
89F00168	M	10	14	7.8	63	0	0	0	35	0	2	7.0	TNTC
89F00175	M	10	14	7.8	47	0	0	0	49	2	2	6.0	35.2
Mean				10.38	48.2	0.0	0.2	0.0	48.6	0.8	2.2	7.40	85.32
Std Dev				2.96	10.4	0.0	0.4	0.0	11.2	0.8	1.5	1.10	59.65
SEM				1.32	4.7	0.0	0.2	0.0	5.0	0.4	0.7	0.49	26.67

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00126	M	1	14	7.1	22	0	0	0	77	1	0	6.5	TNTC
89F00130	M	1	14	6.6	50	0	0	0	49	1	0	6.6	41.2
89F00140	M	1	14	4.5	49	0	0	0	49	2	0	7.6	TNTC
89F00155	M	1	14	8.1	42	0	0	0	56	0	2	7.2	TNTC
89F00166	M	1	14	6.9	35	0	0	0	65	0	0	6.0	41.8
Mean				6.64	39.6	0.0	0.0	0.0	59.2	0.8	0.4	6.78	106.60
Std Dev				1.32	11.5	0.0	0.0	0.0	11.9	0.8	0.9	0.63	59.43
SEM				0.59	5.2	0.0	0.0	0.0	5.3	0.4	0.4	0.28	26.58
89F00118	M	2	14	6.7	60	0	0	0	36	1	3	6.3	33.8
89F00132	M	2	14	4.2	36	0	1	0	63	0	0	5.5	35.6
89F00141	M	2	14	6.2	37	0	0	0	61	1	1	5.8	59.5
89F00176	M	2	14	4.5	17	0	0	0	61	1	1	8.3	TNTC
89F00257	M	2	14	10.0	79	0	0	0	20	1	0	7.3	TNTC
Mean				6.32	45.8	0.0	0.2	0.0	48.2	0.8	1.0	6.64	85.78
Std Dev				2.32	24.0	0.0	0.4	0.0	19.3	0.4	1.2	1.15	59.50
SEM				1.04	10.7	0.0	0.2	0.0	8.6	0.2	0.5	0.52	26.61
89F00129	M	3	14	8.1	44	0	0	0	54	2	0	6.2	TNTC
89F00147	M	3	14	4.6	76	0	0	0	23	1	0	9.2	TNTC
89F00154	M	3	14	died									
89F00172	M	3	14	3.6	44	0	0	0	56	0	0	6.1	52.1
89F00173	M	3	14	5.3	83	0	0	0	16	1	0	1.3	2.0
Mean				5.40	61.8	0.0	0.0	0.0	37.3	1.0	0.0	5.70	88.53
Std Dev				1.93	20.7	0.0	0.0	0.0	20.7	0.8	0.0	3.27	73.87
SEM				0.97	10.3	0.0	0.0	0.0	10.4	0.4	0.0	1.63	36.94

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00127	M	4	14	8.8	24	0	0	0	75	0	1	5.8	32.3
89F00131	M	4	14	6.8	29	0	0	0	69	1	1	5.7	30.3
89F00157	M	4	14	11.3	67	0	0	0	33	0	0	1.6	1.8
89F00169	M	4	14	10.6	63	0	0	0	37	0	0	5.8	38.2
89F00258	M	4	14	8.8	88	0	0	0	8	4	0	1.3	2.1
Mean				9.26	54.2	0.0	0.0	0.0	44.5	1.0	0.4	4.04	20.94
Std Dev				1.76	27.1	0.0	0.0	0.0	27.5	1.7	0.5	2.37	17.58
SEM				0.79	12.1	0.0	0.0	0.0	12.3	0.8	0.2	1.06	7.86
89F00116	M	5	14	8.1	39	0	0	0	59	0	2	6.8	TRTC
89F00128	M	5	14	13.5	32	0	0	0	67	0	1	6.8	TRTC
89F00148	M	5	14	2.6	47	0	0	0	53	0	0	10.3	38.8
89F00259	M	5	14	8.0	65	0	0	0	36	0	0	6.6	8.6
89F00261	M	5	14	7.6	76	0	0	0	22	2	0	7.0	39.3
Mean				7.96	51.8	0.0	0.0	0.0	47.4	0.4	0.6	7.50	77.34
Std Dev				3.86	18.3	0.0	0.0	0.0	18.2	0.9	0.9	1.57	67.48
SEM				1.73	8.2	0.0	0.0	0.0	8.1	0.4	0.4	0.70	30.18
89F00120	M	6	14	5.6	35	0	0	0	60	1	4	6.3	37.2
89F00143	M	6	14	10.4	70	0	0	0	26	0	4	7.0	54.3
89F00149	M	6	14	8.6	44	0	0	0	54	2	0	2.5	36.7
89F00177	M	6	14	4.1	24	0	0	0	75	1	0	6.3	TRTC
89F00263	M	6	14	12.5	49	0	0	0	49	2	0	1.3	1.2
Mean				8.24	44.4	0.0	0.0	0.0	52.8	1.2	1.6	4.68	55.88
Std Dev				3.43	17.2	0.0	0.0	0.0	17.9	0.8	2.2	2.59	56.05
SEM				1.53	7.7	0.0	0.0	0.0	8.0	0.4	1.0	1.16	25.07



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	AP2T
89F00115	M	7	14	4.9	42	0	0	0	55	0	3	7.2	TNTC
89F00137	M	7	14	7.1	43	0	0	0	54	1	2	7.0	TNTC
89F00164	M	7	14	8.8	71	0	0	0	28	0	1	4.0	1.5
89F00171	M	7	14	8.1	31	0	0	0	66	2	1	8.3	1.3
89F00264	M	7	14	6.7	39	0	0	0	58	3	0	6.8	52.8
Mean				7.12	45.2	0.0	0.0	0.0	52.2	1.2	1.4	6.66	71.12
Std Dev				1.49	15.2	0.0	0.0	0.0	14.3	1.3	1.1	1.60	75.00
SEM				0.67	6.8	0.0	0.0	0.0	6.4	0.6	0.5	0.71	33.54
89F00125	M	8	14	15.1	71	0	0	0	25	3	1	7.0	37.4
89F00145	M	8	14	6.1	47	0	0	0	47	3	3	10.6	TNTC
89F00158	M	8	14	died									
89F00165	M	8	14	5.3	41	0	0	0	59	0	0	2.2	35.2
89F00266	M	8	14	died									
Mean				8.83	53.0	0.0	0.0	0.0	43.7	2.0	1.3	6.60	74.20
Std Dev				5.44	15.9	0.0	0.0	0.0	17.2	1.7	1.5	4.21	65.65
SEM				3.14	9.2	0.0	0.0	0.0	10.0	1.0	0.9	2.43	37.91
89F00121	M	9	14	6.6	53	0	0	0	43	2	2	10.6	TNTC
89F00139	M	9	14	5.3	43	0	0	0	56	1	0	7.5	TNTC
89F00151	M	9	14	6.8	54	0	0	0	45	0	0	TNTC	TNTC
89F00156	M	9	14	9.3	62	0	0	0	36	2	0	6.8	48.4
89F00267	M	9	14	6.7	65	0	0	0	34	1	0	7.2	TNTC
Mean				6.94	55.4	0.0	0.0	0.0	42.8	1.2	0.4	8.03	129.68
Std Dev				1.45	8.6	0.0	0.0	0.0	8.7	0.8	0.9	1.74	45.44
SEM				0.65	3.9	0.0	0.0	0.0	3.9	0.4	0.4	0.87	20.32

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00350	F	10	-7	5.06	11.8	34.8	68.8	23.3	33.9	387	6.9	1
89F00351	F	10	-7	6.41	14.1	41.8	65.2	22.0	33.7	379	9.2	0
89F00364	F	10	-7	6.03	13.2	39.6	65.6	21.9	33.3	284	6.7	0
89F00373	F	10	-7	4.92	11.5	34.8	70.8	23.4	33.0	499	6.3	0
89F00381	F	10	-7	5.93	12.6	37.6	63.4	21.2	33.5	238	5.8	0
Mean				5.670	12.64	37.72	66.76	22.36	33.48	357.4	6.98	0.2
Std Dev				0.648	1.05	3.05	2.98	0.96	0.35	101.3	1.31	0.4
SEM				0.290	0.47	1.36	1.33	0.43	0.16	45.3	0.59	0.2

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
Number												
89F00338	F	1	-7	6.54	13.8	41.3	63.1	21.1	33.4	383	6.9	0
89F00339	F	1	-7	5.20	11.4	33.9	65.1	21.9	33.6	331	8.2	0
89F00352	F	1	-7	5.77	12.2	37.6	65.1	21.1	32.4	379	10.2	0
89F00369	F	1	-7	6.79	13.8	41.9	61.7	20.3	32.9	223	7.5	1
89F00377	F	1	-7	5.21	11.3	33.8	64.9	21.7	33.4	226	5.7	0
Mean				5.902	12.50	37.70	63.98	21.22	33.14	308.4	7.70	0.2
Std Dev				0.739	1.24	3.88	1.53	0.63	0.49	79.3	1.67	0.4
SEM				0.331	0.55	1.74	0.68	0.28	0.22	35.5	0.75	0.2
89F00337	F	2	-7	5.48	12.5	35.9	65.6	22.8	34.8	524	6.2	0
89F00358	F	2	-7	4.81	11.2	32.6	67.8	23.3	34.4	523	9.5	0
89F00371	F	2	-7	5.37	11.7	35.9	66.9	21.8	32.6	392	6.8	2
89F00389	F	2	-7	5.80	12.9	38.2	65.9	22.2	33.8	273	5.2	2
89F00391	F	2	-7	5.25	11.2	34.9	66.2	21.3	32.2	365	6.4	0
Mean				5.342	11.90	35.50	66.48	22.28	33.56	415.4	6.82	0.8
Std Dev				0.361	0.77	2.02	0.88	0.79	1.13	108.1	1.61	1.1
SEM				0.161	0.34	0.90	0.39	0.35	0.50	48.3	0.72	0.5
89F00348	F	3	-7	4.80	11.9	34.3	71.5	24.9	34.7	505	7.2	0
89F00355	F	3	-7	clot								
89F00368	F	3	-7	5.29	12.2	36.0	68.1	23.1	33.9	230	7.0	0
89F00370	F	3	-7	5.57	12.7	37.9	68.1	22.8	33.5	312	6.6	3
89F00383	F	3	-7	5.62	12.8	38.7	68.8	22.8	33.1	329	7.7	0
Mean				5.320	12.40	36.73	69.13	23.40	33.80	344.0	7.13	0.8
Std Dev				0.376	0.42	1.97	1.62	1.01	0.68	115.7	0.46	1.5
SEM				0.188	0.21	0.99	0.81	0.50	0.34	57.9	0.23	0.8

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00345	F	4	-7	4.71	11.1	33.1	70.2	23.6	33.5	408	6.8	0
89F00354	F	4	-7	5.17	11.7	34.9	67.5	22.6	33.5	414	10.2	0
89F00374	F	4	-7	3.29	9.4	26.9	81.9	28.6	34.9	653	8.5	5
89F00380	F	4	-7	6.14	13.7	40.9	66.6	22.3	33.5	215	7.3	0
89F00387	F	4	-7	5.62	12.0	37.4	66.6	21.4	32.1	69	6.5	0
Mean				4.986	11.58	34.64	70.56	23.70	33.50	351.8	7.86	1.0
Std Dev				1.086	1.55	5.22	6.51	2.85	0.99	221.6	1.51	2.2
SEM				0.486	0.70	2.34	2.91	1.27	0.44	99.1	0.68	1.0
89F00341	F	5	-7	5.29	12.9	36.5	69.0	24.4	35.3	91	6.8	0
89F00347	F	5	-7	5.61	12.8	38.7	68.9	22.8	33.1	347	6.7	0
89F00360	F	5	-7	6.37	13.2	40.1	63.0	20.7	32.9	260	9.3	0
89F00375	F	5	-7	5.64	11.9	36.4	64.5	21.1	32.7	440	6.3	0
89F00394	F	5	-7	NT								
Mean				5.728	12.70	37.93	66.35	22.25	33.50	284.5	7.28	0.0
Std Dev				0.457	0.56	1.80	3.06	1.70	1.21	148.5	1.37	0.0
SEM				0.228	0.28	0.90	1.53	0.85	0.61	74.2	0.68	0.0
89F00343	F	6	-7	5.74	12.9	38.1	66.4	22.5	33.9	346	6.0	0
89F00357	F	6	-7	5.77	12.6	38.0	65.9	21.8	33.2	383	10.7	0
89F00362	F	6	-7	5.93	12.8	38.3	64.6	21.6	33.4	313	8.7	0
89F00363	F	6	-7	5.84	13.0	38.7	66.2	22.3	33.6	407	10.1	0
89F00379	F	6	-7	5.89	13.2	39.1	66.4	22.4	33.8	428	6.4	0
Mean				5.834	12.90	38.44	65.90	22.12	33.58	375.4	8.38	0.0
Std Dev				0.080	0.22	0.46	0.75	0.40	0.29	46.3	2.12	0.0
SEM				0.036	0.10	0.20	0.34	0.18	0.13	20.7	1.06	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00344	F	7	-7	5.48	11.6	34.9	63.7	21.2	33.2	338	6.2	3
89F00353	F	7	-7	5.84	12.4	37.1	63.5	21.2	33.4	425	9.0	0
89F00366	F	7	-7	5.98	12.6	38.2	63.8	21.1	33.0	332	8.7	0
89F00372	F	7	-7	5.02	11.7	33.9	67.5	23.3	34.5	332	8.3	0
89F00390	F	7	-7	5.84	12.4	37.1	63.5	21.2	33.4	386	7.3	2
Mean				5.632	12.14	36.24	64.40	21.60	33.50	362.6	7.90	1.0
Std Dev				0.389	0.46	1.77	1.74	0.95	0.58	41.6	1.15	1.4
SEM				0.174	0.20	0.79	0.78	0.43	0.26	18.6	0.51	0.6
89F00346	F	8	-7	5.81	12.7	38.5	66.2	21.9	33.0	331	7.0	3
89F00359	F	8	-7	6.32	13.8	40.8	64.5	21.8	33.8	347	10.3	0
89F00365	F	8	-7	5.48	11.7	35.2	64.2	21.4	33.2	332	9.2	0
89F00392	F	8	-7	5.26	11.8	35.2	67.0	22.4	33.5	393	7.0	1
89F00393	F	8	-7	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mean				5.718	12.50	37.43	65.48	21.88	33.38	350.8	8.38	1.0
Std Dev				0.461	0.98	2.74	1.35	0.41	0.35	29.1	1.65	1.4
SEM				0.230	0.49	1.37	0.67	0.21	0.18	14.6	0.83	0.7
89F00340	F	9	-7	5.85	12.6	37.5	64.1	21.5	33.6	278	6.4	0
89F00349	F	9	-7	5.72	12.4	36.4	63.6	21.7	34.1	313	6.2	1
89F00356	F	9	-7	5.40	12.5	37.1	68.7	23.1	33.7	439	9.1	0
89F00367	F	9	-7	5.33	11.5	34.5	64.8	21.6	33.3	494	6.8	0
89F00384	F	9	-7	6.19	12.8	38.3	61.9	20.7	33.4	88	6.1	0
Mean				5.698	12.36	36.76	64.62	21.72	33.62	322.4	6.92	0.2
Std Dev				0.350	0.50	1.44	2.52	0.87	0.31	158.1	1.25	0.4
SEM				0.157	0.22	0.64	1.13	0.39	0.14	70.7	0.56	0.2

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00350	F	10	-7	8.8	18	0	0	0	82	0	0	7.3	27.3
89F00351	F	10	-7	8.2	40	0	0	0	50	4	6	9.0	21.8
89F00364	F	10	-7	11.8	27	0	0	0	71	2	0	9.5	21.7
89F00373	F	10	-7	9.3	19	0	0	0	80	1	0	8.6	44.2
89F00381	F	10	-7	9.5	49	0	0	0	49	2	0	6.6	29.0
Mean				9.52	30.6	0.0	0.0	0.0	66.4	1.8	1.2	8.20	28.80
Std Dev				1.37	13.5	0.0	0.0	0.0	16.0	1.5	2.7	1.21	9.20
SEM				0.61	6.1	0.0	0.0	0.0	7.1	0.7	1.2	0.54	4.12

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
Number													
89F00338	F	1	-7	7.3	29	0	0	0	67	1	3	8.6	28.6
89F00339	F	1	-7	10.0	25	0	0	0	72	1	2	6.8	22.8
89F00352	F	1	-7	7.0	70	0	0	0	28	2	0	8.2	23.6
89F00369	F	1	-7	9.2	25	0	0	0	67	0	8	8.7	25.8
89F00377	F	1	-7	9.0	38	0	0	0	60	0	2	6.3	32.6
Mean				8.50	37.4	0.0	0.0	0.0	58.8	0.8	3.0	7.72	26.68
Std Dev				1.29	19.0	0.0	0.0	0.0	17.7	0.8	3.0	1.10	4.00
SEM				0.58	8.5	0.0	0.0	0.0	7.9	0.4	1.3	0.49	1.79
89F00337	F	2	-7	10.0	31	0	0	0	67	2	0	6.8	25.6
89F00358	F	2	-7	8.1	37	0	0	0	56	3	4	6.1	TNTC
89F00371	F	2	-7	8.3	27	0	0	0	70	2	1	8.0	41.2
89F00389	F	2	-7	6.4	17	0	0	0	79	2	2	2.8	24.3
89F00391	F	2	-7	7.2	22	0	0	0	77	0	1	9.8	TNTC
Mean				8.00	26.8	0.0	0.0	0.0	69.8	1.8	1.6	6.70	78.22
Std Dev				1.35	7.8	0.0	0.0	0.0	9.1	1.1	1.5	2.59	65.86
SEM				0.60	3.5	0.0	0.0	0.0	4.1	0.5	0.7	1.16	29.45
89F00348	F	3	-7	7.1	21	0	0	0	79	0	0	8.1	21.8
89F00355	F	3	-7	clot								9.0	22.8
89F00368	F	3	-7	11.2	22	0	0	0	78	0	0	8.3	38.8
89F00370	F	3	-7	8.7	22	0	0	0	76	1	1	8.0	39.6
89F00383	F	3	-7	7.8	53	0	0	0	43	1	3	6.8	33.3
Mean				8.70	29.5	0.0	0.0	0.0	69.0	0.5	1.0	8.04	31.26
Std Dev				1.79	15.7	0.0	0.0	0.0	17.4	0.6	1.4	0.80	8.54
SEM				0.90	7.8	0.0	0.0	0.0	8.7	0.3	0.7	0.36	3.82

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	HAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00345	F	4	-7	7.0	22	0	0	0	78	0	0	7.2	24.6
89F00354	F	4	-7	7.6	40	0	0	0	59	1	0	9.2	23.1
89F00374	F	4	-7	14.8	31	0	0	0	68	1	0	7.2	35.0
89F00380	F	4	-7	7.2	49	0	0	0	51	0	0	6.7	27.6
89F00387	F	4	-7	4.7	33	0	0	0	66	1	0	9.2	TNTC
Mean				8.26	35.0	0.0	0.0	0.0	64.4	0.6	0.0	7.90	52.06
Std Dev				3.83	10.1	0.0	0.0	0.0	10.1	0.5	0.0	1.20	54.94
SEM				1.71	4.5	0.0	0.0	0.0	4.5	0.2	0.0	0.54	24.57
89F00341	F	5	-7	5.7	14	0	0	0	83	1	2	1.3	1.2
89F00347	F	5	-7	10.1	38	0	0	0	60	2	0	7.0	35.4
89F00360	F	5	-7	4.5	15	0	1	0	82	0	2	TNTC	TNTC
89F00375	F	5	-7	9.1	24	0	0	0	73	1	2	7.8	35.8
89F00394	F	5	-7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mean				7.35	22.8	0.0	0.3	0.0	74.5	1.0	1.5	5.37	55.60
Std Dev				2.68	11.1	0.0	0.5	0.0	10.7	0.8	1.0	3.54	64.99
SEM				1.34	5.6	0.0	0.3	0.0	5.3	0.4	0.5	2.05	32.49
89F00343	F	6	-7	7.2	31	0	0	0	68	1	0	8.0	23.6
89F00357	F	6	-7	6.5	52	0	0	0	40	2	6	6.5	TNTC
89F00362	F	6	-7	7.8	38	0	0	0	62	0	0	TNTC	TNTC
89F00363	F	6	-7	13.3	40	0	0	0	58	1	1	8.0	TNTC
89F00379	F	6	-7	9.6	59	0	0	0	36	2	3	6.8	42.4
Mean				8.88	44.0	0.0	0.0	0.0	52.8	1.2	2.0	7.33	103.20
Std Dev				2.73	11.3	0.0	0.0	0.0	14.0	0.8	2.5	0.79	164.43
SEM				1.22	5.0	0.0	0.0	0.0	6.3	0.4	1.1	0.39	28.81



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00344	F	7	-7	7.6	22	0	0	0	74	0	4	7.8	32.2
89F00353	F	7	-7	7.2	40	0	0	0	56	2	2	8.6	22.0
89F00366	F	7	-7	9.2	39	0	0	0	60	0	1	8.8	27.8
89F00372	F	7	-7	6.9	30	0	0	0	66	0	4	9.4	31.6
89F00390	F	7	-7	5.8	16	0	0	0	80	0	4	5.0	20.6
Mean				7.34	29.4	0.0	0.0	0.0	67.2	0.4	3.0	7.92	26.84
Std Dev				1.24	10.5	0.0	0.0	0.0	9.9	0.9	1.4	1.73	5.35
SEM				0.55	4.7	0.0	0.0	0.0	4.4	0.4	0.6	0.77	2.39
89F00346	F	8	-7	6.8	34	0	0	0	61	4	1	2.4	1.3
89F00359	F	8	-7	6.1	30	0	0	0	65	0	5	5.8	TNTC
89F00365	F	8	-7	10.4	23	0	0	0	75	1	1	9.3	42.2
89F00392	F	8	-7	10.5	21	0	0	0	77	0	2	8.3	29.9
89F00393	F	8	-7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mean				8.45	27.0	0.0	0.0	0.0	69.5	1.3	2.3	6.45	55.85
Std Dev				2.33	6.1	0.0	0.0	0.0	7.7	1.9	1.9	3.08	65.06
SEM				1.16	3.0	0.0	0.0	0.0	3.9	0.9	0.9	1.54	32.53
89F00340	F	9	-7	6.8	20	0	0	0	76	1	3	TNTC	TNTC
89F00349	F	9	-7	9.3	33	0	0	0	66	0	1	6.8	33.6
89F00356	F	9	-7	13.9	72	0	0	0	28	0	0	5.5	TNTC
89F00367	F	9	-7	11.2	15	0	0	0	83	0	2	7.6	9.5
89F00384	F	9	-7	7.0	23	0	0	0	75	1	1	1.8	30.4
Mean				9.64	32.6	0.0	0.0	0.0	65.6	0.4	1.4	5.43	74.70
Std Dev				2.99	23.0	0.0	0.0	0.0	21.9	0.5	1.1	2.57	69.36
SEM				1.34	10.3	0.0	0.0	0.0	9.8	0.2	0.5	1.28	31.02

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00350	F	10	0	4.44	10.6	30.8	69.4	23.9	34.4	355	9.3	0
89F00351	F	10	0	6.27	13.9	40.9	65.3	22.2	34.0	440	5.9	0
89F00364	F	10	0	5.01	11.6	33.4	66.7	23.2	34.7	296	6.2	0
89F00373	F	10	0	4.92	11.4	34.9	70.9	23.2	32.7	470	9.9	0
89F00381	F	10	0	5.52	12.1	35.7	64.7	21.9	33.9	357	8.3	0
Mean				5.232	11.92	35.14	67.40	22.88	33.94	383.6	7.92	0.0
Std Dev				0.695	1.23	3.72	2.67	0.82	0.76	70.4	1.80	0.0
SEM				0.311	0.55	1.66	1.19	0.37	0.34	31.5	0.81	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00338	F	1	0	4.90	10.5	31.5	64.2	21.4	33.3	473	10.5	3
89F00339	F	1	0	4.75	10.7	31.9	67.1	22.5	33.5	389	9.9	1
89F00352	F	1	0	4.79	10.3	31.7	66.2	21.5	32.5	425	7.0	0
89F00369	F	1	0	6.23	12.9	39.1	62.7	20.7	33.0	299	8.8	0
89F00377	F	1	0	5.32	11.7	34.8	65.5	22.0	33.6	237	9.5	1
Mean				5.198	11.22	33.80	65.14	21.62	33.18	364.6	9.14	1.0
Std Dev				0.620	1.08	3.26	1.73	0.68	0.44	95.6	1.35	1.2
SEM				0.277	0.48	1.46	0.77	0.30	0.20	42.8	0.60	0.5
89F00337	F	2	0	5.25	13.3	35.2	67.0	25.3	37.8	393	10.0	0
89F00358	F	2	0	4.29	9.9	30.2	70.3	23.1	32.8	397	6.8	0
89F00371	F	2	0	4.82	10.9	32.3	67.0	22.6	33.7	435	7.2	0
89F00389	F	2	0	5.38	12.1	36.2	67.3	22.5	33.4	335	9.3	0
89F00391	F	2	0	4.61	10.6	31.4	68.1	23.0	33.8	435	8.0	3
Mean				4.870	11.36	33.06	67.94	23.30	34.30	399.0	8.26	0.6
Std Dev				0.450	1.34	2.55	1.39	1.15	1.99	41.0	1.36	1.3
SEM				0.201	0.60	1.14	0.62	0.51	0.89	18.3	0.61	0.6
89F00348	F	3	0	4.33	10.6	30.7	71.0	24.5	34.5	381	9.0	1
89F00355	F	3	0	4.61	10.6	32.2	69.9	23.0	32.9	398	7.9	0
89F00368	F	3	0	5.01	11.7	35.1	70.0	23.4	33.3	235	10.5	0
89F00370	F	3	0	5.10	11.8	36.1	70.7	23.1	32.7	371	8.2	0
89F00383	F	3	0	4.88	11.4	33.6	68.9	23.4	33.9	326	8.9	0
Mean				4.786	11.22	33.54	70.10	23.48	33.46	342.2	8.90	0.2
Std Dev				0.315	0.58	2.17	0.82	0.60	0.74	65.6	1.01	0.4
SEM				0.141	0.26	0.97	0.36	0.27	0.33	29.3	0.45	0.2

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00345	F	4	0	4.69	10.8	33.6	71.8	23.1	32.1	365	10.8	2
89F00354	F	4	0	4.84	11.4	33.9	70.0	23.6	33.6	312	7.5	0
89F00374	F	4	0	2.55	7.7	24.3	95.3	30.2	31.7	310	11.5	20
89F00380	F	4	0	5.32	12.1	36.5	68.7	22.7	33.2	388	8.5	0
89F00387	F	4	0	4.77	11.0	32.7	68.6	23.1	33.6	560	10.0	0
Mean				4.434	10.60	32.20	74.88	24.54	32.85	387.0	9.66	4.4
Std Dev				1.081	1.70	4.64	11.49	3.18	0.89	102.4	1.64	8.8
SEM				0.484	0.76	2.07	5.14	1.42	0.40	45.8	0.74	3.9
89F00341	F	5	0	4.89	11.7	34.4	70.4	23.9	34.0	365	11.5	5
89F00347	F	5	0	4.92	11.8	34.6	70.3	24.0	34.1	292	9.6	0
89F00360	F	5	0	5.70	11.8	36.0	63.2	20.7	32.8	254	7.2	0
89F00375	F	5	0	5.49	11.8	36.0	65.6	21.5	32.8	531	8.6	0
89F00394	F	5	0	4.52	10.9	31.8	70.3	24.1	34.3	343	7.5	0
Mean				5.104	11.60	34.56	67.96	22.84	33.60	357.0	8.88	1.0
Std Dev				0.481	0.39	1.72	3.36	1.61	0.74	106.5	1.75	2.2
SEM				0.215	0.18	0.77	1.50	0.72	0.33	47.6	0.78	1.0
89F00343	F	6	0	5.22	11.9	36.2	69.3	22.8	32.9	436	10.5	4
89F00357	F	6	0	5.62	12.1	37.1	66.1	21.5	32.6	351	6.4	0
89F00362	F	6	0	4.47	10.3	31.2	69.8	23.0	33.0	531	7.9	4
89F00363	F	6	0	5.13	11.5	34.0	66.3	22.4	33.8	441	8.0	0
89F00379	F	6	0	5.28	12.2	36.4	68.9	23.1	33.5	307	8.9	0
Mean				5.144	11.60	34.98	68.08	22.56	33.16	413.2	8.34	1.6
Std Dev				0.420	0.77	2.41	1.75	0.65	0.48	87.1	1.50	2.2
SEM				0.188	0.35	1.08	0.78	0.29	0.22	38.9	0.67	1.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00344	F	7	0	5.06	11.1	33.4	66.1	21.9	33.2	353	10.9	0
89F00353	F	7	0	5.30	11.2	34.4	64.9	21.1	32.6	378	6.2	1
89F00366	F	7	0	6.18	13.2	40.0	64.8	21.4	33.0	322	8.4	0
89F00372	F	7	0	4.85	11.5	33.3	68.6	23.7	34.5	370	8.4	0
89F00390	F	7	0	5.52	12.0	35.7	64.6	21.7	33.6	489	10.3	0
Mean				5.382	11.80	35.36	65.80	21.96	33.38	382.4	8.84	0.2
Std Dev				0.512	0.86	2.77	1.67	1.02	0.72	63.3	1.85	0.4
SEM				0.229	0.38	1.24	0.75	0.46	0.32	28.3	0.83	0.2
89F00346	F	8	0	5.25	11.4	35.4	67.4	21.7	32.2	334	9.7	0
89F00359	F	8	0	5.22	11.9	35.3	67.6	22.8	33.7	373	7.0	0
89F00365	F	8	0	4.94	10.7	32.6	65.9	21.7	32.8	315	8.6	0
89F00392	F	8	0	4.92	11.5	34.2	69.5	23.4	33.6	418	10.5	0
89F00393	F	8	0	6.59	13.4	41.0	62.2	20.3	32.7	362	6.8	0
Mean				5.384	11.78	35.70	66.52	21.98	33.00	360.4	8.52	0.0
Std Dev				0.691	1.00	3.17	2.73	1.19	0.64	39.5	1.63	0.0
SEM				0.309	0.45	1.42	1.22	0.53	0.28	17.7	0.73	0.0
89F00340	F	9	0	5.17	11.5	33.6	64.9	22.2	34.2	153	10.4	0
89F00349	F	9	0	4.84	10.4	32.0	66.2	21.5	32.5	312	10.6	4
89F00356	F	9	0	5.29	12.7	37.3	70.5	24.0	34.0	396	6.2	0
89F00367	F	9	0	4.42	9.9	28.8	65.1	22.4	34.4	400	8.7	0
89F00384	F	9	0	5.44	11.6	34.9	64.1	21.3	33.2	173	8.0	0
Mean				5.032	11.22	33.32	66.16	22.28	33.66	286.8	8.78	0.8
Std Dev				0.407	1.10	3.19	2.54	1.07	0.79	118.6	1.82	1.8
SEM				0.182	0.49	1.42	1.14	0.48	0.35	53.0	0.81	0.8

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00350	F	10	0	6.5	22	0	0	0	77	0	1	8.3	92.0
89F00351	F	10	0	9.1	52	0	0	0	46	1	1	10.0	TNTC
89F00364	F	10	0	13.5	48	0	0	0	48	3	1	13.8	TNTC
89F00373	F	10	0	11.2	21	0	0	0	75	2	2	9.6	TNTC
89F00381	F	10	0	7.8	47	0	0	0	48	2	3	8.3	TNTC
Mean				9.62	38.0	0.0	0.0	0.0	58.8	1.6	1.6	10.00	138.40
Std Dev				2.78	15.2	0.0	0.0	0.0	15.7	1.1	0.9	2.26	25.94
SEM				1.24	6.8	0.0	0.0	0.0	7.0	0.5	0.4	1.01	11.60

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00338	F	1	0	12.2	19	0	0	0	77	0	4	8.4	149.0
89F00339	F	1	0	9.4	37	0	0	0	62	1	0	7.8	22.0
89F00352	F	1	0	10.3	53	0	0	0	46	1	0	6.8	37.8
89F00369	F	1	0	9.8	43	0	0	0	54	2	1	9.2	TNTC
89F00377	F	1	0	8.7	49	0	0	0	50	0	1	7.5	TNTC
Mean				10.08	40.2	0.0	0.0	0.0	57.8	0.8	1.2	7.94	101.76
Std Dev				1.32	13.3	0.0	0.0	0.0	12.3	0.8	1.6	0.91	665.84
SEM				0.59	6.0	0.0	0.0	0.0	5.5	0.4	0.7	0.41	29.44
89F00337	F	2	0	9.5	59	0	2	0	36	1	2	9.6	TNTC
89F00358	F	2	0	8.0	35	0	0	0	64	0	1	10.3	TNTC
89F00371	F	2	0	8.1	15	0	0	0	79	2	4	8.2	TNTC
89F00389	F	2	0	7.9	36	0	0	0	52	2	10	8.8	TNTC
89F00391	F	2	0	12.0	38	0	0	0	60	0	2	9.5	TNTC
Mean				9.10	36.6	0.0	0.4	0.0	58.2	1.0	3.8	9.28	150.00
Std Dev				1.75	15.6	0.0	0.9	0.0	15.8	1.0	3.6	0.80	0.00
SEM				0.78	7.0	0.0	0.4	0.0	7.1	0.4	1.6	0.36	0.00
89F00348	F	3	0	7.9	24	0	0	0	75	0	1	9.0	TNTC
89F00355	F	3	0	8.0	22	0	0	0	73	2	3	9.6	TNTC
89F00368	F	3	0	13.1	36	0	0	0	29	2	3	7.8	110.1
89F00370	F	3	0	9.3	41	0	0	0	55	3	1	8.6	TNTC
89F00383	F	3	0	7.6	49	0	0	0	44	4	3	9.3	TNTC
Mean				9.18	34.4	0.0	0.0	0.0	55.2	2.2	2.2	8.85	142.1
Std Dev				2.29	11.4	0.0	0.0	0.0	19.5	1.5	1.1	0.70	17.84
SEM				1.02	5.1	0.0	0.0	0.0	8.7	0.7	0.5	0.31	7.98

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00345	F	4	0	7.4	33	0	0	0	63	4	0	9.4	TNTC
89F00354	F	4	0	8.6	40	0	0	0	60	0	0	9.8	TNTC
89F00374	F	4	0	23.7	36	0	0	0	64	0	0	8.3	11.6
89F00380	F	4	0	11.2	45	0	0	0	47	5	3	7.5	20.7
89F00387	F	4	0	6.4	42	0	0	0	51	2	5	7.2	40.2
Mean				11.46	39.2	0.0	0.0	0.0	57.0	2.2	1.6	8.44	74.50
Std Dev				7.07	4.8	0.0	0.0	0.0	7.6	2.3	2.3	1.14	69.69
SEM				3.16	2.1	0.0	0.0	0.0	3.4	1.0	1.0	0.51	31.17
89F00341	F	5	0	6.8	37	0	0	0	63	0	0	8.0	TNTC
89F00347	F	5	0	11.7	24	0	0	0	68	4	4	10.3	TNTC
89F00360	F	5	0	12.2	35	0	0	0	61	2	2	7.6	TNTC
89F00375	F	5	0	6.5	39	0	0	0	57	2	2	7.8	TNTC
89F00394	F	5	0	9.6	28	0	0	0	68	1	3	8.8	TNTC
Mean				9.36	32.6	0.0	0.0	0.0	63.4	1.8	2.2	8.50	150.00
Std Dev				2.66	6.3	0.0	0.0	0.0	4.7	1.5	1.5	1.10	0.00
SEM				1.19	2.8	0.0	0.0	0.0	2.1	0.7	0.7	0.49	0.00
89F00343	F	6	0	8.9	29	0	0	0	68	2	1	9.9	TNTC
89F00357	F	6	0	8.2	31	0	0	0	68	1	0	9.6	TNTC
89F00362	F	6	0	12.1	48	0	0	0	45	5	2	8.0	TNTC
89F00363	F	6	0	13.3	32	0	0	0	66	1	1	9.7	72.1
89F00379	F	6	0	10.6	43	0	0	0	52	2	3	8.0	TNTC
Mean				10.62	36.6	0.0	0.0	0.0	59.8	2.2	1.4	9.04	134.42
Std Dev				2.13	8.4	0.0	0.0	0.0	10.6	1.6	1.1	0.96	34.84
SEM				0.95	3.7	0.0	0.0	0.0	4.8	0.7	0.5	0.43	15.58



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00344	F	7	0	8.9	33	0	2	0	61	1	3	9.7	TNTC
89F00353	F	7	0	7.7	49	0	0	0	47	2	2	8.6	TNTC
89F00366	F	7	0	8.9	50	0	0	0	41	4	5	10.8	TNTC
89F00372	F	7	0	8.8	45	0	0	0	53	1	1	6.8	32.2
89F00390	F	7	0	6.2	39	0	0	0	59	2	0	7.2	TNTC
Mean				8.10	43.2	0.0	0.4	0.0	52.2	2.0	2.2	8.62	126.44
Std Dev				1.18	7.2	0.0	0.9	0.0	8.3	1.2	1.9	1.68	52.68
SEM				0.53	3.2	0.0	0.4	0.0	3.7	0.5	0.9	0.75	23.56
89F00346	F	8	0	8.3	38	0	0	0	58	1	3	9.5	TNTC
89F00359	F	8	0	9.0	41	0	0	0	57	1	1	9.0	TNTC
89F00365	F	8	0	10.5	23	0	0	0	75	1	1	13.0	TNTC
89F00392	F	8	0	10.8	47	0	0	0	49	1	3	10.8	TNTC
89F00393	F	8	0	7.7	54	0	0	0	39	3	4	8.4	TNTC
Mean				9.26	40.6	0.0	0.0	0.0	55.6	1.4	2.4	10.14	150.00
Std Dev				1.35	11.6	0.0	0.0	0.0	13.3	0.9	1.3	1.83	0.00
SEM				0.61	5.2	0.0	0.0	0.0	5.9	0.4	0.6	0.82	0.00
89F00340	F	9	0	11.2	38	0	0	0	62	0	0	9.5	25.8
89F00349	F	9	0	11.9	35	0	0	0	64	0	1	10.2	TNTC
89F00356	F	9	0	9.2	54	0	0	0	41	3	2	11.3	TNTC
89F00367	F	9	0	8.5	25	0	0	0	74	0	1	8.8	TNTC
89F00384	F	9	0	9.7	30	0	0	0	66	4	0	8.9	TNTC
Mean				10.10	36.4	0.0	0.0	0.0	61.4	1.4	0.8	9.74	125.16
Std Dev				1.41	11.0	0.0	0.0	0.0	12.3	1.9	0.8	1.04	55.54
SEM				0.63	4.9	0.0	0.0	0.0	5.5	0.9	0.4	0.46	24.84

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00350	F	10	1	4.39	10.5	30.5	69.5	23.9	34.4	366	6.3	0
89F00351	F	10	1	5.74	12.7	37.1	64.7	22.1	34.2	353	6.3	0
89F00364	F	10	1	4.82	11.2	32.8	68.1	23.2	34.1	309	8.3	0
89F00373	F	10	1	4.47	10.6	32.1	71.8	23.7	33.0	432	8.9	0
89F00381	F	10	1	5.36	11.5	34.9	65.2	21.5	33.0	352	9.9	0
Mean				4.956	11.30	33.48	67.86	22.88	33.74	362.4	7.94	0.0
Std Dev				0.582	0.89	2.57	2.97	1.04	0.68	44.5	1.60	0.0
SEM				0.260	0.40	1.15	1.33	0.47	0.31	19.9	0.72	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00338	F	1	1	4.82	10.2	31.8	66.0	21.2	32.1	566	4.3	1
89F00339	F	1	1	4.35	10.2	30.5	70.0	23.4	33.4	464	8.5	0
89F00352	F	1	1	4.63	9.8	30.7	66.4	21.2	31.9	434	7.3	0
89F00369	F	1	1	5.62	11.8	35.5	63.2	21.0	33.2	269	9.9	0
89F00377	F	1	1	4.92	10.7	32.6	66.2	21.7	32.8	213	7.5	0
Mean				4.868	10.54	32.22	66.36	21.70	32.68	389.2	7.50	0.2
Std Dev				0.473	0.77	2.02	2.42	0.98	0.66	145.2	2.06	0.4
SEM				0.212	0.35	0.90	1.08	0.44	0.30	64.9	0.92	0.2
89F00337	F	2	1	4.68	10.8	32.3	69.0	23.1	33.4	433	8.8	0
89F00358	F	2	1	3.94	9.2	27.5	69.7	23.4	33.5	437	9.6	0
89F00371	F	2	1	4.51	10.4	30.9	68.5	23.1	33.7	384	8.4	0
89F00389	F	2	1	5.06	11.5	34.2	67.5	22.7	33.6	435	9.6	4
89F00391	F	2	1	4.22	9.4	28.4	67.3	22.3	33.1	410	8.9	0
Mean				4.482	10.26	30.66	68.40	22.92	33.46	419.8	9.06	0.8
Std Dev				0.429	0.96	2.76	1.01	0.43	0.23	22.8	0.53	1.8
SEM				0.192	0.43	1.23	0.45	0.19	0.10	10.2	0.24	0.8
89F00348	F	3	1	4.48	10.8	31.5	70.3	24.1	34.3	418	6.2	0
89F00355	F	3	1	4.57	10.1	31.8	69.5	22.1	31.8	398	8.8	1
89F00368	F	3	1	4.38	10.5	31.1	71.1	24.0	33.8	280	10.3	0
89F00370	F	3	1	4.37	10.7	31.1	71.1	24.5	34.4	323	8.5	0
89F00383	F	3	1	4.75	10.9	32.7	68.8	22.9	33.3	331	7.4	0
Mean				4.510	10.60	31.64	70.16	23.52	33.52	350.0	8.24	0.2
Std Dev				0.157	0.32	0.66	1.01	0.99	1.06	56.8	1.54	0.4
SEM				0.070	0.14	0.30	0.45	0.44	0.47	25.4	0.69	0.2

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00345	F	4	1	4.67	10.9	33.8	72.3	23.3	32.2	299	8.9	2
89F00354	F	4	1	4.61	10.5	32.4	70.3	22.8	32.4	280	8.8	0
89F00374	F	4	1	2.79	8.0	26.3	94.3	28.7	30.4	255	12.0	18
89F00380	F	4	1	4.64	11.0	32.1	69.2	23.7	34.3	398	10.3	2
89F00387	F	4	1	3.92	9.1	26.7	68.0	23.2	34.1	469	7.7	0
Mean				4.126	9.90	30.26	74.82	24.34	32.68	340.2	9.54	4.4
Std Dev				0.810	1.31	3.49	11.00	2.46	1.59	90.2	1.66	7.7
SEM				0.362	0.58	1.56	4.92	1.10	0.71	40.3	0.74	3.4
89F00341	F	5	1	5.20	12.8	38.0	73.0	24.6	33.7	550	9.0	3
89F00347	F	5	1	4.72	11.4	33.4	70.8	24.2	34.1	272	9.1	3
89F00360	F	5	1	5.12	10.6	32.3	63.1	20.7	32.8	272	9.6	1
89F00375	F	5	1	4.57	10.3	30.6	66.9	22.5	33.7	420	9.5	0
89F00394	F	5	1	4.98	11.3	33.8	67.8	22.7	33.4	364	7.6	0
Mean				4.918	11.28	33.62	68.32	22.94	33.54	375.6	8.96	1.4
Std Dev				0.267	0.97	2.74	3.79	1.55	0.48	116.2	0.80	1.5
SEM				0.119	0.43	1.23	1.70	0.69	0.22	52.0	0.36	0.7
89F00343	F	6	1	4.52	10.9	31.8	70.4	24.1	34.3	377	8.4	2
89F00357	F	6	1	5.12	11.1	33.7	65.9	21.7	32.9	364	8.7	0
89F00362	F	6	1	4.08	9.5	28.8	70.7	23.3	33.0	540	10.3	20
89F00363	F	6	1	4.90	11.0	33.1	67.5	22.4	33.2	480	10.3	0
89F00379	F	6	1	5.06	11.5	34.8	68.8	22.7	33.0	363	9.2	1
Mean				4.736	10.80	32.44	68.66	22.84	33.28	424.8	9.38	4.6
Std Dev				0.435	0.76	2.30	2.01	0.91	0.58	80.8	0.89	8.6
SEM				0.194	0.34	1.03	0.90	0.41	0.26	36.1	0.40	3.9

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00344	F	7	1	5.04	11.3	33.2	65.9	22.4	34.0	397	7.0	0
89F00353	F	7	1	5.04	10.8	32.6	64.7	21.4	33.1	384	9.3	1
89F00366	F	7	1	5.21	11.6	34.1	65.5	22.3	34.0	289	9.0	0
89F00372	F	7	1	4.42	10.5	30.8	69.6	23.8	34.1	387	10.1	0
89F00390	F	7	1	5.20	11.2	33.9	65.2	21.5	33.0	518	8.9	0
Mean				4.982	11.08	32.92	66.18	22.28	33.64	395.0	8.86	0.2
Std Dev				0.325	0.43	1.33	1.96	0.96	0.54	81.5	1.14	0.4
SEM				0.145	0.19	0.59	0.88	0.43	0.24	36.4	0.51	0.2
89F00346	F	8	1	4.69	10.5	31.5	67.2	22.4	33.3	288	8.2	0
89F00359	F	8	1	4.93	11.2	33.3	67.6	22.7	33.6	428	9.0	2
89F00365	F	8	1	4.30	10.2	29.5	68.7	23.7	34.6	337	9.2	0
89F00392	F	8	1	4.47	10.3	31.0	69.4	23.0	33.2	382	9.7	0
89F00393	F	8	1	5.52	11.4	34.1	61.8	20.7	33.4	340	7.1	0
Mean				4.782	10.72	31.88	66.94	22.50	33.62	355.0	8.64	0.4
Std Dev				0.476	0.54	1.84	3.00	1.12	0.57	52.7	1.02	0.9
SEM				0.213	0.24	0.82	1.34	0.50	0.25	23.6	0.45	0.4
89F00340	F	9	1	4.48	10.0	29.7	66.2	22.3	33.7	244	5.0	0
89F00349	F	9	1	4.20	9.8	28.3	67.3	23.3	34.6	334	8.6	5
89F00356	F	9	1	4.69	11.1	33.1	70.6	23.7	33.5	351	8.6	0
89F00367	F	9	1	4.11	9.4	27.4	66.6	22.9	34.3	448	8.6	0
89F00384	F	9	1	4.77	10.5	30.9	64.8	22.0	34.0	191	7.0	0
Mean				4.450	10.16	29.88	67.10	22.84	34.02	313.6	7.56	1.0
Std Dev				0.291	0.66	2.24	2.16	0.70	0.44	99.7	1.59	2.2
SEM				0.130	0.29	1.00	0.97	0.31	0.20	44.6	0.71	1.0

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00350	F	10	1	7.1	35	0	0	0	65	0	0	7.0	9.1
89F00351	F	10	1	11.4	44	0	0	0	55	1	0	8.4	TNTC
89F00364	F	10	1	11.3	42	0	0	0	49	5	4	10.5	TNTC
89F00373	F	10	1	11.7	28	0	0	0	72	0	0	8.9	TNTC
89F00381	F	10	1	9.5	38	0	0	0	60	2	0	9.0	TNTC
Mean				10.20	37.4	0.0	0.0	0.0	60.2	1.6	0.8	8.76	121.82
Std Dev				1.94	6.3	0.0	0.0	0.0	8.9	2.1	1.8	1.26	63.01
SEM				0.87	2.8	0.0	0.0	0.0	4.0	0.9	0.8	0.56	28.18

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00338	F	1	1	10.4	71	0	0	0	25	4	0	8.8	TNTC
89F00339	F	1	1	8.0	77	0	0	0	20	2	1	7.4	TNTC
89F00352	F	1	1	11.1	55	0	0	0	45	0	0	5.8	45.6
89F00369	F	1	1	10.8	26	0	0	0	69	3	2	10.0	26.1
89F00377	F	1	1	10.0	40	0	0	0	55	3	2	6.8	50.6
Mean				10.06	53.8	0.0	0.0	0.0	42.8	2.4	1.0	7.76	84.46
Std Dev				1.22	21.2	0.0	0.0	0.0	20.5	1.5	1.0	1.66	60.53
SEM				0.55	9.5	0.0	0.0	0.0	9.2	0.7	0.4	0.74	27.07
89F00337	F	2	1	12.3	47	0	0	0	49	3	1	12.3	TNTC
89F00358	F	2	1	7.7	46	0	0	0	48	2	4	8.0	TNTC
89F00371	F	2	1	8.0	23	0	0	0	76	0	1	12.6	TNTC
89F00389	F	2	1	8.0	42	0	0	0	49	4	5	8.0	TNTC
89F00391	F	2	1	10.2	56	0	0	0	41	3	0	8.5	TNTC
Mean				9.24	42.8	0.0	0.0	0.0	52.6	2.4	2.2	9.88	150.00
Std Dev				1.98	12.2	0.0	0.0	0.0	13.5	1.5	2.2	2.36	0.00
SEM				0.89	5.5	0.0	0.0	0.0	6.0	0.7	1.0	1.05	0.00
89F00348	F	3	1	7.2	60	0	0	0	40	0	0	9.1	TNTC
89F00355	F	3	1	7.8	38	0	0	0	57	1	4	11.0	TNTC
89F00368	F	3	1	16.0	27	0	0	0	68	2	3	8.6	83.9
89F00370	F	3	1	8.6	33	0	0	0	67	0	0	TNTC	TNTC
89F00383	F	3	1	8.5	50	0	0	0	47	2	1	8.8	TNTC
Mean				9.62	41.6	0.0	0.0	0.0	55.8	1.0	1.6	9.38	136.78
Std Dev				3.61	13.3	0.0	0.0	0.0	12.3	1.0	1.8	1.10	29.56
SEM				1.62	6.0	0.0	0.0	0.0	5.5	0.4	0.8	0.55	13.22

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00345	F	4	1	7.5	36	0	0	0	64	0	0	6.8	68.2
89F00354	F	4	1	9.1	41	0	0	0	56	0	3	9.0	TNTC
89F00374	F	4	1	14.7	27	0	0	0	69	2	2	11.1	TNTC
89F00380	F	4	1	10.0	37	0	0	0	60	1	2	7.5	TNTC
89F00387	F	4	1	6.9	28	0	0	0	72	0	0	7.0	37.4
Mean				9.64	33.8	0.0	0.0	0.0	64.2	0.6	1.4	8.28	111.12
Std Dev				3.09	6.1	0.0	0.0	0.0	6.5	0.9	1.3	1.80	54.34
SEM				1.38	2.7	0.0	0.0	0.0	2.9	0.4	0.6	0.80	24.30
89F00341	F	5	1	11.7	69	0	0	0	30	1	0	7.6	TNTC
89F00347	F	5	1	9.8	35	0	0	0	61	2	2	10.0	TNTC
89F00360	F	5	1	10.4	32	0	0	0	66	1	1	9.6	TNTC
89F00375	F	5	1	7.3	46	0	0	0	50	1	3	11.6	TNTC
89F00394	F	5	1	10.6	34	0	0	0	64	2	0	13.4	TNTC
Mean				9.96	43.2	0.0	0.0	0.0	54.2	1.4	1.2	10.44	150.00
Std Dev				1.64	15.4	0.0	0.0	0.0	14.9	0.5	1.3	2.18	0.00
SEM				0.73	6.9	0.0	0.0	0.0	6.7	0.2	0.6	0.98	0.00
89F00343	F	6	1	7.5	43	0	0	0	55	0	2	8.0	TNTC
89F00357	F	6	1	8.1	33	0	0	0	62	1	4	9.6	TNTC
89F00362	F	6	1	13.6	42	0	0	0	54	2	2	8.0	TNTC
89F00363	F	6	1	12.5	39	0	0	0	57	2	2	9.5	TNTC
89F00379	F	6	1	9.7	42	0	0	0	53	1	4	8.0	TNTC
Mean				10.28	39.8	0.0	0.0	0.0	56.2	1.2	2.8	8.62	150.00
Std Dev				2.68	4.1	0.0	0.0	0.0	3.6	0.8	1.1	0.85	0.00
SEM				1.20	1.8	0.0	0.0	0.0	1.6	0.4	0.5	0.38	0.00



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00344	F	7	1	7.6	53	0	0	0	43	2	2	7.3	TNTC
89F00353	F	7	1	7.6	40	0	0	0	54	1	5	8.2	TNTC
89F00366	F	7	1	10.6	40	0	0	0	55	4	1	11.8	TNTC
89F00372	F	7	1	7.8	45	0	0	0	52	2	1	8.0	TNTC
89F00390	F	7	1	8.5	49	0	0	0	48	0	3	8.6	TNTC
Mean				8.42	45.4	0.0	0.0	0.0	50.4	1.8	2.4	8.78	150.00
Std Dev				1.27	5.7	0.0	0.0	0.0	4.9	1.5	1.7	1.75	0.00
SEM				0.57	2.5	0.0	0.0	0.0	2.2	0.7	0.7	0.78	0.00
89F00346	F	8	1	7.8	35	0	0	0	60	1	4	7.2	TNTC
89F00359	F	8	1	8.5	25	0	0	0	66	2	7	10.5	TNTC
89F00365	F	8	1	11.2	49	0	0	0	48	3	0	10.0	TNTC
89F00392	F	8	1	9.6	40	0	0	0	54	1	5	9.0	TNTC
89F00393	F	8	1	9.0	36	0	0	0	62	1	1	16.5	TNTC
Mean				9.22	37.0	0.0	0.0	0.0	58.0	1.6	3.4	10.64	150.00
Std Dev				1.29	8.7	0.0	0.0	0.0	7.1	0.9	2.9	3.51	0.00
SEM				0.58	3.9	0.0	0.0	0.0	3.2	0.4	1.3	1.57	0.00
89F00340	F	9	1	4.2	31	0	0	0	68	0	1	8.4	TNTC
89F00349	F	9	1	11.1	65	0	0	0	34	1	0	9.3	TNTC
89F00356	F	9	1	9.2	69	0	0	0	26	2	3	8.6	TNTC
89F00367	F	9	1	10.1	24	0	0	0	74	1	1	12.0	TNTC
89F00384	F	9	1	9.6	20	0	0	0	80	0	0	8.3	TNTC
Mean				9.84	41.8	0.0	0.0	0.0	56.4	0.8	1.0	9.32	150.00
Std Dev				0.80	23.4	0.0	0.0	0.0	24.6	0.8	1.2	1.55	0.00
SEM				0.36	10.5	0.0	0.0	0.0	11.0	0.4	0.5	0.69	0.00

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00350	F	10	2	4.20	10.3	29.5	70.3	24.5	34.9	371	8.3	0
89F00351	F	10	2	5.45	12.1	35.9	65.8	22.2	33.7	304	9.1	0
89F00364	F	10	2	4.72	10.5	31.8	67.3	22.2	33.0	358	9.4	0
89F00373	F	10	2	4.44	10.5	31.6	71.2	23.6	33.2	431	8.0	0
89F00381	F	10	2	4.80	10.6	31.5	65.7	22.1	33.7	292	10.9	0
Mean				4.722	10.80	32.06	68.06	22.92	33.70	351.2	9.14	0.0
Std Dev				0.471	0.73	2.34	2.56	1.08	0.74	56.0	1.14	0.0
SEM				0.211	0.33	1.05	1.14	0.48	0.33	25.0	0.51	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00338	F	1	2	4.38	9.9	28.4	64.9	22.6	34.9	540	7.9	0
89F00339	F	1	2	4.10	9.3	28.3	69.0	22.7	32.9	491	7.6	0
89F00352	F	1	2	4.29	9.6	29.1	67.8	22.4	33.0	491	9.8	0
89F00369	F	1	2	4.94	10.6	31.1	62.9	21.5	34.1	241	10.4	0
89F00377	F	1	2	4.48	10.0	30.0	66.9	22.3	33.3	238	10.1	0
Mean				4.438	9.88	29.38	66.30	22.30	33.64	400.2	9.16	0.0
Std Dev				0.314	0.49	1.18	2.42	0.47	0.85	148.1	1.31	0.0
SEM				0.140	0.22	0.53	1.08	0.21	0.38	66.2	0.59	0.0
89F00337	F	2	2	4.15	9.5	28.4	68.5	22.9	33.5	458	6.8	1
89F00358	F	2	2	3.61	8.5	25.7	71.2	23.5	33.1	410	7.1	0
89F00371	F	2	2	4.01	9.1	27.7	69.2	22.7	32.9	348	9.5	0
89F00389	F	2	2	4.77	11.0	32.6	68.3	23.1	33.7	472	10.8	3
89F00391	F	2	2	3.84	8.9	26.8	69.8	23.2	33.2	432	7.3	0
Mean				4.076	9.40	28.24	69.40	23.08	33.28	424.0	8.30	0.8
Std Dev				0.437	0.96	2.64	1.17	0.30	0.32	48.7	1.76	1.3
SEM				0.195	0.43	1.18	0.52	0.14	0.14	21.8	0.79	0.6
89F00348	F	3	2	3.83	9.4	27.3	71.4	24.5	34.4	391	6.7	0
89F00355	F	3	2	3.99	9.2	28.3	70.9	23.1	32.5	366	8.9	0
89F00368	F	3	2	4.19	10.0	29.9	71.4	23.9	33.4	308	10.3	0
89F00370	F	3	2	4.35	10.3	30.5	70.1	23.7	33.8	339	9.3	0
89F00383	F	3	2	4.31	10.1	29.7	69.0	23.4	34.0	333	9.4	0
Mean				4.134	9.80	29.14	70.56	23.72	33.62	347.4	8.92	0.0
Std Dev				0.220	0.47	1.31	1.02	0.53	0.72	31.9	1.34	0.0
SEM				0.098	0.21	0.58	0.46	0.24	0.32	14.3	0.60	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00345	F	4	2	4.42	10.6	31.7	71.8	24.0	33.4	349	9.2	6
89F00354	F	4	2	4.05	9.6	29.1	71.8	23.7	33.0	250	10.1	0
89F00374	F	4	2	2.89	8.1	26.3	90.9	28.0	30.8	205	10.5	4
89F00380	F	4	2	4.44	10.2	30.8	69.4	23.0	33.1	354	10.2	0
89F00387	F	4	2	4.31	10.0	29.6	68.7	23.2	33.8	534	11.5	0
Mean				4.022	9.70	29.50	74.52	24.38	32.82	338.4	10.30	2.0
Std Dev				0.652	0.96	2.06	9.26	2.06	1.17	126.7	0.83	2.8
SEM				0.291	0.43	0.92	4.14	0.92	0.52	56.7	0.37	1.3
89F00341	F	5	2	4.51	11.2	32.6	72.2	24.8	34.4	541	8.1	0
89F00347	F	5	2	4.42	10.7	31.0	70.1	24.2	34.5	226	6.7	0
89F00360	F	5	2	4.84	10.3	30.9	63.9	21.3	33.3	298	8.2	0
89F00375	F	5	2	4.20	9.1	28.0	66.6	21.7	32.5	454	8.4	0
89F00394	F	5	2	4.35	10.0	29.8	68.6	23.0	33.6	445	10.4	0
Mean				4.464	10.26	30.46	68.28	23.00	33.66	392.8	8.36	0.0
Std Dev				0.239	0.79	1.70	3.19	1.52	0.93	127.7	1.32	0.0
SEM				0.107	0.35	0.76	1.43	0.68	0.37	57.1	0.59	0.0
89F00343	F	6	2	4.44	10.4	31.4	70.7	23.4	33.1	370	7.1	2
89F00357	F	6	2	4.39	10.0	29.5	67.1	22.8	33.9	349	9.9	0
89F00362	F	6	2	3.16	7.8	23.3	73.6	24.7	33.5	458	10.0	8
89F00363	F	6	2	died								
89F00379	F	6	2	4.69	10.9	32.3	68.8	23.2	33.7	365	11.0	1
Mean				4.170	9.78	29.13	70.05	23.53	33.55	385.5	9.50	2.8
Std Dev				0.686	1.37	4.05	2.79	0.82	0.34	49.2	1.68	3.6
SEM				0.343	0.68	2.03	1.39	0.41	0.17	24.6	0.84	1.8

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00344	F	7	2	4.56	10.1	30.3	66.4	22.1	33.3	409	6.8	1
89F00353	F	7	2	4.20	9.5	28.1	67.0	22.6	33.8	315	8.8	0
89F00366	F	7	2	4.89	10.7	31.6	64.7	21.9	33.9	303	9.7	3
89F00372	F	7	2	4.43	10.3	30.5	68.8	23.3	33.8	422	10.1	0
89F00390	F	7	2	4.85	10.4	31.9	65.8	21.4	32.6	509	11.0	0
Mean				4.586	10.20	30.48	66.54	22.26	33.48	391.6	9.28	0.8
Std Dev				0.290	0.45	1.50	1.52	0.72	0.54	84.7	1.60	1.3
SEM				0.130	0.20	0.67	0.68	0.32	0.24	37.9	0.71	0.6
89F00346	F	8	2	4.39	10.1	29.7	67.6	23.0	34.0	NT	6.6	0
89F00359	F	8	2	4.44	10.0	31.0	69.9	22.5	32.3	400	8.4	0
89F00365	F	3	2	3.98	8.8	26.5	66.7	22.1	33.2	327	9.7	1
89F00392	F	8	2	4.38	10.4	30.5	69.6	23.7	34.1	421	11.4	0
89F00393	F	8	2	4.69	9.9	29.1	62.1	21.1	34.0	388	10.1	0
Mean				4.376	9.84	29.36	67.18	22.48	33.52	384.0	9.24	0.2
Std Dev				0.255	0.61	1.76	3.14	0.98	0.77	40.4	1.82	0.4
SEM				0.114	0.27	0.79	1.40	0.44	0.35	20.2	0.82	0.2
89F00340	F	9	2	3.72	8.2	24.6	66.1	22.0	33.3	314	5.5	0
89F00349	F	9	2	3.99	9.0	26.9	67.5	22.6	33.5	334	7.1	0
89F00356	F	9	2	4.22	10.0	30.2	71.6	27.3	33.1	355	9.9	0
89F00367	F	9	2	3.87	8.8	25.5	65.9	22.7	34.5	343	10.6	0
89F00384	F	9	2	4.57	10.0	29.6	64.8	21.9	33.8	201	10.6	0
Mean				4.074	9.20	27.36	67.18	23.30	33.64	309.4	8.74	0.0
Std Dev				0.332	0.79	2.47	2.65	2.26	0.55	62.4	2.32	0.0
SEM				0.149	0.35	1.10	1.19	1.01	0.24	27.9	1.04	0.0

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00350	F	10	2	9.9	18	0	0	0	81	1	0	10.0	TNTC
89F00351	F	10	2	9.9	35	0	0	0	58	4	3	2.6	13.0
89F00364	F	10	2	11.1	42	0	0	0	51	4	3	10.3	TNTC
89F00373	F	10	2	11.0	22	0	0	0	75	1	2	7.3	TNTC
89F00381	F	10	2	11.0	34	0	0	0	62	3	1	13.6	TNTC
Mean				10.58	30.2	0.0	0.0	0.0	65.4	2.6	1.8	8.76	122.60
Std Dev				0.62	9.9	0.0	0.0	0.0	12.3	1.5	1.3	4.11	61.27
SEM				0.28	4.4	0.0	0.0	0.0	5.5	0.7	0.6	1.84	27.40

Appendix H (cont.): HEMATOLOGY

Animal	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
Number													
89F00338	F	1	2	10.3	35	0	0	0	62	3	0	8.8	TNTC
89F00339	F	1	2	10.3	46	0	0	0	54	0	0	7.0	TNTC
89F00352	F	1	2	10.2	51	0	0	0	49	0	0	8.5	41.5
89F00369	F	1	2	8.9	24	0	0	0	72	1	3	8.6	TNTC
89F00377	F	1	2	9.3	41	0	0	0	57	0	2	10.1	TNTC
Mean				9.80	39.4	0.0	0.0	0.0	58.8	0.8	1.0	8.60	128.30
Std Dev				0.66	10.5	0.0	0.0	0.0	8.8	1.3	1.4	1.10	48.52
SEM				0.29	4.7	0.0	0.0	0.0	3.9	0.6	0.6	0.49	21.70
89F00337	F	2	2	13.3	38	0	0	0	59	1	2	8.8	TNTC
89F00358	F	2	2	6.9	50	0	0	0	48	2	0	7.0	TNTC
89F00371	F	2	2	9.3	23	0	0	0	75	1	1	8.7	TNTC
89F00389	F	2	2	6.7	30	0	0	0	67	1	2	7.6	TNTC
89F00391	F	2	2	12.3	47	0	0	0	51	2	0	4.3	TNTC
Mean				9.70	37.6	0.0	0.0	0.0	60.0	1.4	1.0	7.28	150.00
Std Dev				3.03	11.3	0.0	0.0	0.0	11.2	0.5	1.0	1.83	0.00
SEM				1.35	5.1	0.0	0.0	0.0	5.0	0.2	0.4	0.82	0.00
89F00348	F	3	2	8.3	36	0	0	0	63	1	0	8.8	TNTC
89F00355	F	3	2	7.2	27	0	0	0	69	2	2	10.0	TNTC
89F00368	F	3	2	13.2	26	0	0	0	71	1	2	9.0	TNTC
89F00370	F	3	2	6.6	40	0	0	0	56	0	4	TNTC	TNTC
89F00383	F	3	2	6.2	30	0	0	0	65	2	3	11.0	TNTC
Mean				8.30	31.8	0.0	0.0	0.0	64.8	1.2	2.2	9.70	150.00
Std Dev				2.85	6.0	0.0	0.0	0.0	5.8	0.8	1.5	1.01	0.00
SEM				1.28	2.7	0.0	0.0	0.0	2.6	0.4	0.7	0.51	0.00

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00345	F	4	2	7.8	42	0	0	0	53	3	2	9.0	TNTC
89F00354	F	4	2	9.2	55	0	0	0	41	3	1	8.8	TNTC
89F00374	F	4	2	13.2	27	0	0	0	69	2	2	7.8	TNTC
89F00380	F	4	2	10.4	28	0	0	0	67	2	3	7.2	TNTC
89F00387	F	4	2	6.7	33	0	0	0	61	1	5	6.3	3.6
Mean				9.46	37.0	0.0	0.0	0.0	58.2	2.2	2.6	7.82	120.72
Std Dev				2.52	11.7	0.0	0.0	0.0	11.5	0.8	1.5	1.12	65.47
SEM				1.12	5.2	0.0	0.0	0.0	5.1	0.4	0.7	0.50	29.28
89F00341	F	5	2	10.5	57	0	0	0	40	3	0	8.8	TNTC
89F00347	F	5	2	10.8	28	0	0	0	71	0	1	11.0	TNTC
89F00360	F	5	2	12.2	33	0	0	0	57	5	5	6.3	TNTC
89F00375	F	5	2	8.4	24	0	0	0	72	1	3	7.8	TNTC
89F00394	F	5	2	10.1	24	0	0	0	73	0	3	7.3	TNTC
Mean				10.40	33.2	0.0	0.0	0.0	62.6	1.8	2.4	8.24	150.00
Std Dev				1.37	13.8	0.0	0.0	0.0	14.2	2.2	1.9	1.79	0.00
SEM				0.61	6.2	0.0	0.0	0.0	6.4	1.0	0.9	0.80	0.00
89F00343	F	6	2	8.9	34	0	0	0	62	3	1	8.7	TNTC
89F00357	F	6	2	10.0	37	0	0	0	57	5	1	7.6	TNTC
89F00362	F	6	2	14.2	40	0	0	0	60	0	0	8.0	TNTC
89F00363	F	6	2	died									
89F00379	F	6	2	12.9	54	0	0	0	42	2	2	10.0	TNTC
Mean				11.50	41.3	0.0	0.0	0.0	55.3	2.5	1.0	8.58	150.00
Std Dev				2.47	8.8	0.0	0.0	0.0	9.1	2.1	0.8	1.05	0.00
SEM				1.23	4.4	0.0	0.0	0.0	4.5	1.0	0.4	0.53	0.00



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00344	F	7	2	7.2	35	0	0	0	63	1	1	8.5	TNTC
89F00353	F	7	2	7.2	49	0	0	0	50	1	0	13.0	TNTC
89F00366	F	7	2	11.5	41	0	0	0	56	2	1	8.2	TNTC
89F00372	F	7	2	7.6	44	0	0	0	50	0	6	7.8	TNTC
89F00390	F	7	2	7.8	49	0	0	0	49	0	2	9.3	TNTC
Mean				8.26	43.6	0.0	0.0	0.0	53.6	0.8	2.0	9.36	150.00
Std Dev				1.83	5.9	0.0	0.0	0.0	5.9	0.8	2.3	2.11	0.00
SEM				0.82	2.6	0.0	0.0	0.0	2.7	0.4	1.0	0.94	0.00
89F00346	F	8	2	7.6	44	0	0	0	56	0	0	9.2	TNTC
89F00359	F	8	2	9.3	42	0	0	0	53	1	4	6.8	TNTC
89F00365	F	8	2	11.9	32	0	0	0	63	2	3	9.5	TNTC
89F00392	F	8	2	7.9	46	0	0	0	50	1	3	8.6	TNTC
89F00393	F	8	2	7.7	36	0	0	0	63	0	1	15.0	23.2
Mean				8.88	40.0	0.0	0.0	0.0	57.0	0.8	2.2	9.82	124.64
Std Dev				1.82	5.8	0.0	0.0	0.0	5.9	0.8	1.6	3.08	56.71
SEM				0.82	2.6	0.0	0.0	0.0	2.6	0.4	0.7	1.38	25.36
89F00340	F	9	2	10.4	49	0	0	0	50	1	0	8.6	29.6
89F00349	F	9	2	12.1	45	0	0	0	54	1	0	8.8	TNTC
89F00356	F	9	2	8.9	52	0	0	0	41	4	3	8.8	TNTC
89F00367	F	9	2	7.4	21	0	0	0	79	0	0	19.8	TNTC
89F00384	F	9	2	7.6	21	0	0	0	75	2	2	6.8	31.2
Mean				9.28	37.6	0.0	0.0	0.0	59.8	1.6	1.0	10.56	102.16
Std Dev				1.98	15.4	0.0	0.0	0.0	16.5	1.5	1.4	5.23	65.51
SEM				0.89	6.9	0.0	0.0	0.0	7.4	0.7	0.6	2.34	29.30

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00350	F	10	3	3.77	9.3	27.2	72.2	24.7	34.2	344	9.2	0
89F00351	F	10	3	5.01	10.9	32.6	65.1	21.8	33.4	363	8.8	2
89F00364	F	10	3	4.29	9.7	29.3	68.3	22.6	33.1	354	10.3	0
89F00373	F	10	3	3.99	9.9	29.1	72.9	24.8	34.0	524	11.0	0
89F00381	F	10	3	4.67	10.2	31.1	66.5	21.8	32.8	275	11.3	2
Mean				4.346	10.00	29.86	69.00	23.14	33.50	372.0	10.12	0.8
Std Dev				0.502	0.60	2.06	3.44	1.51	0.59	91.8	1.09	1.1
SEM				0.224	0.27	0.92	1.54	0.67	0.26	41.0	0.49	0.5

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00338	F	1	3	4.33	10.0	29.5	68.1	23.1	33.9	489	8.3	0
89F00339	F	1	3	3.78	9.1	27.7	73.3	24.1	32.9	568	8.0	0
89F00352	F	1	3	3.23	7.0	21.4	66.2	21.7	32.7	206	9.2	0
89F00369	F	1	3	4.69	10.5	29.9	63.8	22.4	35.1	278	10.7	0
89F00377	F	1	3	4.52	9.9	30.2	66.8	21.9	32.8	271	11.5	0
Mean				4.110	9.30	27.74	67.64	22.64	33.48	362.4	9.54	0.0
Std Dev				0.599	1.38	3.67	3.53	0.98	1.03	156.7	1.52	0.0
SEM				0.268	0.62	1.64	1.58	0.44	0.46	70.1	0.68	0.0
89F00337	F	2	3	3.66	9.0	26.1	71.2	24.6	34.5	476	8.7	1
89F00358	F	2	3	3.56	8.7	25.0	70.2	24.4	34.8	368	6.4	0
89F00371	F	2	3	3.49	8.1	24.6	68.8	23.2	33.8	345	10.3	0
89F00389	F	2	3	4.39	10.1	30.3	69.1	23.0	33.3	540	11.0	0
89F00391	F	2	3	3.56	8.3	24.4	68.5	23.3	34.0	407	9.3	0
Mean				3.732	8.84	26.08	69.56	23.70	34.08	427.2	9.14	0.2
Std Dev				0.373	0.79	2.45	1.12	0.74	0.59	80.3	1.77	0.4
SEM				0.167	0.35	1.10	0.50	0.33	0.26	35.9	0.79	0.2
89F00348	F	3	3	3.52	8.8	25.7	73.0	25.0	34.2	368	6.5	0
89F00355	F	3	3	4.01	9.3	27.9	69.6	23.2	33.3	331	10.2	0
89F00368	F	3	3	3.85	9.3	28.1	73.0	24.2	33.1	352	11.3	0
89F00370	F	3	3	3.76	9.2	26.8	71.3	24.5	34.3	250	10.8	0
89F00383	F	3	3	4.07	9.4	28.1	69.0	23.1	33.5	392	11.6	0
Mean				3.842	9.20	27.32	71.18	24.00	33.68	338.6	10.08	0.0
Std Dev				0.218	0.23	1.05	1.86	0.83	0.54	54.3	2.07	0.0
SEM				0.098	0.10	0.47	0.83	0.37	0.24	24.3	0.93	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00345	F	4	3	4.21	10.3	31.3	74.3	24.5	32.9	349	8.5	0
89F00354	F	4	3	3.93	9.4	28.1	71.5	23.9	33.5	258	8.9	0
89F00374	F	4	3	3.05	8.6	27.1	88.9	28.2	31.7	213	11.3	0
89F00380	F	4	3	4.07	9.4	28.9	70.9	23.1	32.5	387	11.0	0
89F00387	F	4	3	3.94	9.2	27.5	69.7	23.4	33.5	576	10.3	0
Mean				3.840	9.38	28.58	75.06	24.62	32.82	356.6	10.00	0.0
Std Dev				0.456	0.61	1.66	7.92	2.07	0.76	140.9	1.25	0.0
SEM				0.204	0.27	0.74	3.54	0.93	0.34	63.0	0.56	0.0
89F00341	F	5	3	3.84	9.5	28.4	73.9	24.7	33.5	621	9.8	0
89F00347	F	5	3	3.84	9.8	28.1	73.2	25.5	34.9	174	9.3	5
89F00360	F	5	3	4.98	10.6	31.8	63.8	21.3	33.3	353	7.8	0
89F00375	F	5	3	4.08	9.1	27.4	67.2	22.3	33.2	457	10.2	0
89F00394	F	5	3	4.46	10.4	30.8	69.0	23.3	33.8	414	10.1	0
Mean				4.240	9.88	29.30	69.42	23.42	33.74	403.8	9.44	1.0
Std Dev				0.485	0.62	1.89	4.21	1.71	0.69	162.4	0.98	2.2
SEM				0.217	0.28	0.85	1.88	0.77	0.31	72.6	0.44	1.0
89F00343	F	6	3	3.94	9.9	29.9	75.8	25.1	33.1	377	8.0	0
89F00357	F	6	3	4.43	10.2	29.8	67.2	23.0	34.2	365	10.5	1
89F00362	F	6	3	2.47	6.2	19.2	77.9	25.1	32.3	448	10.8	0
89F00363	F	6	3	died								
89F00379	F	6	3	4.63	10.7	32.1	69.3	23.1	33.3	445	10.6	0
Mean				3.868	9.25	27.75	72.55	24.08	33.23	408.8	9.98	0.3
Std Dev				0.976	2.06	5.80	5.11	1.18	0.78	43.9	1.32	0.5
SEM				0.488	1.03	2.90	2.56	0.59	0.39	21.9	0.66	0.3

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00344	F	7	3	4.25	9.5	29.2	68.6	22.4	32.5	435	9.2	3
89F00353	F	7	3	4.10	9.4	27.1	66.2	22.9	34.7	303	10.1	1
89F00366	F	7	3	4.48	9.9	29.3	65.5	22.1	33.8	292	10.1	4
89F00372	F	7	3	4.02	9.4	28.3	70.5	23.4	33.2	385	10.6	0
89F00390	F	7	3	4.09	10.6	32.6	65.9	21.5	32.5	569	11.3	0
Mean				4.189	9.76	29.30	67.34	22.46	33.34	396.8	10.26	1.6
Std Dev				0.183	0.51	2.05	2.14	0.73	0.93	113.0	0.77	1.8
SEM				0.082	0.23	0.91	0.96	0.33	0.42	50.5	0.34	0.8
89F00346	F	8	3	4.05	9.4	28.8	71.2	23.2	32.6	317	8.5	0
89F00359	F	8	3	3.94	9.4	27.4	69.6	23.9	34.3	476	9.1	0
89F00365	F	8	3	3.83	8.6	26.1	68.1	22.5	33.0	345	10.9	1
89F00392	F	8	3	4.22	10.0	29.7	70.3	23.7	33.7	460	10.2	0
89F00393	F	8	3	4.43	9.3	28.1	63.5	21.0	33.1	481	10.2	0
Mean				4.094	9.34	28.02	68.54	22.86	33.34	415.8	9.78	0.2
Std Dev				0.237	0.50	1.37	3.04	1.17	0.67	78.4	0.96	0.4
SEM				0.106	0.22	0.61	1.36	0.52	0.30	35.1	0.43	0.2
89F00340	F	9	3	3.30	7.7	22.8	69.0	23.3	33.8	368	9.0	0
89F00349	F	9	3	3.62	8.5	25.6	70.6	23.5	33.2	315	10.0	4
89F00356	F	9	3	4.11	9.6	29.3	71.2	23.4	32.8	348	9.8	3
89F00367	F	9	3	3.56	8.1	23.6	66.4	22.8	34.3	460	10.3	0
89F00384	F	9	3	4.61	9.7	30.2	65.6	21.0	32.0	220	11.0	0
Mean				3.840	8.72	26.30	68.56	22.80	33.22	342.2	10.02	1.4
Std Dev				0.521	0.90	3.33	2.49	1.04	0.89	87.0	0.73	1.9
SEM				0.233	0.40	1.49	1.11	0.47	0.40	38.9	0.33	0.9

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00350	F	10	3	6.7	32	0	0	0	68	0	0	4.2	6.8
89F00351	F	10	3	13.2	59	0	0	0	37	4	0	18.3	TNTC
89F00364	F	10	3	12.9	41	0	0	0	54	4	1	9.5	TNTC
89F00373	F	10	3	12.4	22	0	0	0	76	1	1	12.5	TNTC
89F00381	F	10	3	9.4	27	0	0	0	69	1	3	9.4	TNTC
Mean				10.92	36.2	0.0	0.0	0.0	60.8	2.0	1.0	10.78	121.36
Std Dev				2.80	14.5	0.0	0.0	0.0	15.5	1.9	1.2	5.16	64.04
SEM				1.25	6.5	0.0	0.0	0.0	6.9	0.8	0.5	2.31	28.64

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00338	F	1	3	11.8	72	0	0	0	26	2	0	7.3	44.8
89F00339	F	1	3	11.3	42	0	0	0	55	2	1	9.8	TNTC
89F00352	F	1	3	4.2	45	0	0	0	54	1	0	7.3	58.2
89F00369	F	1	3	8.6	16	0	0	0	82	1	1	9.2	TNTC
89F00377	F	1	3	7.6	50	0	0	0	47	2	1	9.0	TNTC
Mean				8.70	45.0	0.0	0.0	0.0	52.8	1.6	0.6	8.52	110.60
Std Dev				3.08	20.0	0.0	0.0	0.0	20.1	0.5	0.5	1.15	54.16
SEM				1.38	9.0	0.0	0.0	0.0	9.0	0.2	0.2	0.52	24.22
89F00337	F	2	3	14.4	43	0	0	0	54	2	1	10.3	TNTC
89F00358	F	2	3	5.9	41	0	0	0	56	2	1	9.0	TNTC
89F00371	F	2	3	6.4	25	0	0	0	73	1	1	TNTC	TNTC
89F00389	F	2	3	6.6	42	0	0	0	50	4	4	9.2	TNTC
89F00391	F	2	3	9.8	48	0	0	0	50	2	0	9.0	TNTC
Mean				8.62	39.8	0.0	0.0	0.0	56.6	2.2	1.4	9.38	150.00
Std Dev				3.58	8.7	0.0	0.0	0.0	9.5	1.1	1.5	0.62	0.00
SEM				1.60	3.9	0.0	0.0	0.0	4.3	0.5	0.7	0.31	0.00
89F00348	F	3	3	8.1	53	0	0	0	44	1	2	14.1	TNTC
89F00355	F	3	3	7.4	50	0	0	0	48	2	0	8.8	TNTC
89F00368	F	3	3	10.7	34	0	0	0	63	1	2	8.0	25.6
89F00370	F	3	3	5.3	52	0	0	0	48	0	0	8.6	25.0
89F00383	F	3	3	5.9	34	0	0	0	61	2	3	9.0	TNTC
Mean				7.48	44.6	0.0	0.0	0.0	52.8	1.2	1.4	9.70	100.12
Std Dev				2.12	9.7	0.0	0.0	0.0	8.6	0.8	1.3	2.49	68.30
SEM				0.95	4.4	0.0	0.0	0.0	3.8	0.4	0.6	1.11	30.55

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00345	F	4	3	9.8	55	0	0	0	44	1	0	20.0	TNTC
89F00354	F	4	3	7.2	79	0	0	0	20	0	1	8.0	TNTC
89F00374	F	4	3	9.6	39	0	0	0	59	1	1	9.8	TNTC
89F00380	F	4	3	13.4	38	0	0	0	56	3	3	1.6	2.8
89F00387	F	4	3	7.4	39	0	0	0	57	1	3	3.8	24.2
Mean				9.48	50.0	0.0	0.0	0.0	47.2	1.2	1.6	8.64	95.40
Std Dev				2.50	17.7	0.0	0.0	0.0	16.3	1.1	1.3	7.14	75.15
SEM				1.12	7.9	0.0	0.0	0.0	7.3	0.5	0.6	3.19	33.61
89F00341	F	5	3	10.0	70	0	0	0	29	0	1	10.0	TNTC
89F00347	F	5	3	11.6	29	0	0	0	67	1	3	14.0	TNTC
89F00360	F	5	3	12.5	36	0	0	0	62	2	0	8.2	TNTC
89F00375	F	5	3	8.4	16	0	0	0	77	1	6	10.0	TNTC
89F00394	F	5	3	8.8	28	0	0	0	68	1	3	16.8	TNTC
Mean				10.26	35.8	0.0	0.0	0.0	60.6	1.0	2.6	11.80	150.00
Std Dev				1.77	20.4	0.0	0.0	0.0	18.5	0.7	2.3	3.51	0.00
SEM				0.79	9.1	0.0	0.0	0.0	8.3	0.3	1.0	1.57	0.00
89F00343	F	6	3	9.4	26	0	0	0	73	0	1	10.0	TNTC
89F00357	F	6	3	9.1	40	0	0	0	58	2	0	11.2	TNTC
89F00362	F	6	3	18.0	50	0	0	0	49	1	0	8.8	TNTC
89F00363	F	6	3	died									
89F00379	F	6	3	10.8	33	0	0	0	60	3	4	9.8	TNTC
Mean				11.83	37.3	0.0	0.0	0.0	60.0	1.5	1.3	9.95	150.00
Std Dev				4.18	10.2	0.0	0.0	0.0	9.9	1.3	1.9	0.98	0.00
SEM				2.09	5.1	0.0	0.0	0.0	4.9	0.6	0.9	0.49	0.00



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00344	F	7	3	8.6	45	0	0	0	54	1	0	10.8	TNTC
89F00353	F	7	3	8.5	50	0	0	0	48	0	2	15.0	TNTC
89F00366	F	7	3	8.9	40	0	0	0	51	4	5	10.5	TNTC
89F00372	F	7	3	8.8	54	0	0	0	42	3	1	7.4	41.0
89F00390	F	7	3	8.3	36	0	0	0	61	0	3	7.5	TNTC
Mean				8.62	45.0	0.0	0.0	0.0	51.2	1.6	2.2	10.24	128.20
Std Dev				0.24	7.3	0.0	0.0	0.0	7.0	1.8	1.9	3.11	48.75
SEM				0.11	3.3	0.0	0.0	0.0	3.2	0.8	0.9	1.39	21.80
89F00346	F	8	3	8.5	52	0	0	0	48	0	0	17.2	TNTC
89F00359	F	8	3	9.3	27	0	0	0	70	1	2	8.2	TNTC
89F00365	F	8	3	11.2	26	0	0	0	72	1	1	9.5	TNTC
89F00392	F	8	3	10.1	46	0	0	0	50	2	2	12.6	TNTC
89F00393	F	8	3	10.7	33	0	0	0	64	1	2	9.8	TNTC
Mean				9.96	36.8	0.0	0.0	0.0	60.8	1.0	1.4	11.46	150.00
Std Dev				1.08	11.6	0.0	0.0	0.0	11.2	0.7	0.9	3.59	0.00
SEM				0.48	5.2	0.0	0.0	0.0	5.0	0.3	0.4	1.60	0.00
89F00340	F	9	3	8.5	60	0	0	0	37	1	2	14.2	TNTC
89F00349	F	9	3	10.5	50	0	0	0	47	2	1	15.2	TNTC
89F00356	F	9	3	9.8	55	0	0	0	41	4	0	9.2	TNTC
89F00367	F	9	3	8.5	29	0	0	0	69	1	1	8.3	TNTC
89F00384	F	9	3	7.3	21	0	0	0	74	3	2	19.8	TNTC
Mean				8.92	43.0	0.0	0.0	0.0	53.6	2.2	1.2	13.34	150.00
Std Dev				1.25	17.0	0.0	0.0	0.0	16.8	1.3	0.8	4.70	0.00
SEM				0.56	7.6	0.0	0.0	0.0	7.5	0.6	0.4	2.10	0.00

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00350	F	10	7	3.89	9.6	29.3	75.4	24.7	32.8	504	10.2	1
89F00351	F	10	7	5.08	11.4	34.2	67.3	22.4	33.3	538	9.1	0
89F00364	F	10	7	3.94	9.7	28.8	73.1	24.6	33.7	261	10.5	0
89F00373	F	10	7	4.34	10.7	32.6	75.2	24.7	32.8	575	10.7	0
89F00381	F	10	7	4.86	11.0	34.0	70.0	22.6	32.4	408	10.2	1
Mean				4.422	10.48	31.78	72.20	23.80	33.00	457.2	10.14	0.4
Std Dev				0.535	0.80	2.57	3.50	1.19	0.50	126.0	0.62	0.5
SEM				0.239	0.36	1.15	1.56	0.53	0.23	56.4	0.28	0.2

Appendix B (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00338	F	1	7	4.79	10.6	32.3	67.5	22.1	32.8	289	9.1	0
89F00339	F	1	7	3.96	9.6	28.9	72.9	24.2	33.2	587	8.9	0
89F00352	F	1	7	5.00	11.0	33.7	67.3	22.0	32.6	476	10.4	0
89F00369	F	1	7	4.37	9.9	28.9	66.2	22.7	34.3	244	10.8	0
89F00377	F	1	7	4.39	9.9	30.1	68.5	22.6	32.9	303	11.4	0
Mean				4.502	10.20	30.78	68.48	22.72	33.16	379.8	10.12	0.0
Std Dev				0.405	0.58	2.14	2.60	0.88	0.67	145.6	1.08	0.0
SEM				0.181	0.26	0.96	1.16	0.39	0.30	65.1	0.49	0.0
89F00337	F	2	7	3.80	9.1	26.8	70.6	23.9	34.0	469	8.9	0
89F00358	F	2	7	3.42	8.2	24.4	71.3	24.0	33.6	269	8.6	0
89F00371	F	2	7	3.47	8.2	24.2	69.7	23.6	33.9	271	9.9	0
89F00389	F	2	7	4.28	10.2	30.5	71.2	23.8	33.4	392	10.3	0
89F00391	F	2	7	3.68	8.9	26.3	73.2	24.2	33.1	295	9.8	0
Mean				3.730	8.92	26.56	71.20	23.90	33.60	339.2	9.50	0.0
Std Dev				0.344	0.82	2.55	1.29	0.22	0.37	88.3	0.72	0.0
SEM				0.154	0.37	1.14	0.58	0.10	0.16	39.5	0.32	0.0
89F00348	F	3	7	3.67	9.0	26.6	72.6	24.5	33.8	300	8.5	0
89F00355	F	3	7	3.56	8.2	25.1	70.5	23.0	32.7	398	5.3	0
89F00368	F	3	7	3.67	9.3	27.7	75.4	25.3	33.6	242	11.9	0
89F00370	F	3	7	2.60	6.4	18.8	72.3	24.6	34.0	107	9.1	0
89F00383	F	3	7	3.78	9.0	26.2	69.2	23.8	34.4	369	10.3	0
Mean				3.456	8.38	24.88	72.00	24.24	33.70	283.2	9.02	0.0
Std Dev				0.485	1.18	3.52	2.35	0.87	0.63	115.7	2.45	0.0
SEM				0.217	0.53	1.58	1.05	0.39	0.28	51.8	1.10	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00345	F	4	7	4.38	10.6	32.3	73.8	24.2	32.8	304	9.1	0
89F00354	F	4	7	3.90	9.1	28.6	73.4	23.3	31.8	334	10.3	2
89F00374	F	4	7	4.08	10.3	33.5	82.1	25.2	30.7	178	10.1	0
89F00380	F	4	7	4.10	10.4	31.9	77.8	25.4	32.6	369	11.8	4
89F00387	F	4	7	4.11	9.7	29.1	70.7	23.6	33.3	662	10.8	0
Mean				4.114	10.02	31.08	75.56	24.34	32.24	369.4	10.42	1.2
Std Dev				0.172	0.61	2.13	4.45	0.94	1.02	178.7	0.99	1.8
SEM				0.077	0.27	0.95	1.99	0.42	0.45	79.9	0.44	0.8
89F00341	F	5	7	4.47	10.8	33.1	74.1	24.2	32.6	500	10.5	3
89F00347	F	5	7	4.08	10.2	30.0	73.6	25.0	34.0	205	9.9	0
89F00360	F	5	7	4.68	10.3	31.4	67.2	22.0	32.8	311	10.2	0
89F00375	F	5	7	4.05	9.4	28.3	69.9	23.2	33.2	376	10.3	0
89F00394	F	5	7	4.33	10.5	30.8	71.1	24.2	34.1	393	9.0	0
Mean				4.322	10.24	30.72	71.18	23.72	33.34	357.0	9.98	0.6
Std Dev				0.266	0.52	1.77	2.82	1.15	0.68	108.8	0.59	1.3
SEM				0.119	0.23	0.79	1.26	0.52	0.31	48.6	0.26	0.6
89F00343	F	6	7	4.39	10.9	33.2	75.7	24.8	32.8	456	10.0	0
89F00357	F	6	7	4.56	10.6	31.5	69.1	23.2	33.7	459	9.6	0
89F00362	F	6	7	2.46	7.3	22.9	93.2	29.7	31.9	439	11.3	5
89F00363	F	6	7	died								
89F00379	F	6	7	4.80	11.6	32.9	68.6	24.2	35.3	667	9.8	0
Mean				4.053	10.10	30.13	76.65	25.48	33.43	505.3	10.18	1.3
Std Dev				1.075	1.91	4.87	11.50	2.89	1.45	108.2	0.77	2.5
SEM				0.537	0.96	2.44	5.75	1.45	0.72	54.1	0.38	1.3

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00344	F	7	7	4.48	10.2	31.0	69.2	22.8	32.9	402	9.8	0
89F00353	F	7	7	4.20	9.5	29.1	69.4	22.6	32.6	372	9.2	0
89F00366	F	7	7	4.53	10.3	30.7	67.7	22.7	33.6	260	10.6	0
89F00372	F	7	7	3.77	8.9	27.1	71.8	23.6	32.8	291	10.5	0
89F00390	F	7	7	4.65	10.5	31.5	67.8	22.2	32.7	287	9.2	0
Mean				4.326	9.84	29.88	69.18	22.78	32.92	322.4	9.86	0.0
Std Dev				0.352	0.62	1.79	1.66	0.51	0.40	61.1	0.68	0.0
SEM				0.157	0.28	0.80	0.74	0.23	0.18	27.3	0.30	0.0
89F00346	F	8	7	3.98	9.4	28.3	71.1	23.6	33.2	240	10.0	0
89F00359	F	8	7	3.70	9.0	27.1	73.3	24.3	33.2	453	9.1	0
89F00365	F	8	7	3.84	8.9	27.2	70.9	23.2	32.7	316	10.3	0
89F00392	F	8	7	3.70	9.2	26.7	72.1	24.9	34.5	485	11.4	0
89F00393	F	8	7	4.33	9.6	29.4	67.9	22.2	32.7	319	9.8	1
Mean				3.910	9.22	27.74	71.06	23.64	33.27	362.6	10.12	0.2
Std Dev				0.262	0.29	1.10	2.01	1.04	0.74	102.8	0.84	0.4
SEM				0.117	0.13	0.49	0.90	0.45	0.33	46.0	0.38	0.2
89F00340	F	9	7	3.31	8.1	24.4	73.8	24.5	33.2	292	10.3	0
89F00349	F	9	7	3.74	8.8	26.8	71.7	23.5	32.8	212	8.9	0
89F00356	F	9	7	3.98	9.5	28.9	72.5	23.9	32.9	451	9.8	0
89F00367	F	9	7	3.84	8.4	25.7	67.0	21.9	32.7	496	10.3	0
89F00384	F	9	7	4.12	9.3	27.1	68.3	22.6	33.1	149	10.0	0
Mean				3.798	8.82	26.78	70.66	23.28	32.94	320.0	9.86	0.0
Std Dev				0.308	0.59	1.81	2.88	1.04	0.21	149.9	0.58	0.0
SEM				0.138	0.26	0.81	1.29	0.46	0.09	67.0	0.26	0.0

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00350	F	10	7	9.5	39	0	0	0	58	3	0	11.4	TNTC
89F00351	F	10	7	9.6	51	0	0	0	43	0	6	10.7	21.5
89F00364	F	10	7	11.1	38	0	0	0	53	4	5	14.3	TNTC
89F00373	F	10	7	9.7	31	0	0	0	64	2	3	7.8	TNTC
89F00381	F	10	7	9.0	49	0	0	0	41	5	5	7.8	57.2
Mean				9.78	41.6	0.0	0.0	0.0	51.8	2.8	3.8	10.40	105.74
Std Dev				0.79	8.3	0.0	0.0	0.0	9.8	1.9	2.4	2.73	61.91
SEM				0.35	3.7	0.0	0.0	0.0	4.4	0.9	1.1	1.22	27.69

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00338	F	1	7	7.0	36	0	0	0	60	2	2	6.8	47.2
89F00339	F	1	7	6.9	41	0	0	0	59	0	0	6.2	53.3
89F00352	F	1	7	5.8	61	0	0	0	34	5	0	9.8	1.8
89F00369	F	1	7	9.2	28	0	0	0	69	0	3	6.7	TNTC
89F00377	F	1	7	8.8	48	0	0	0	50	1	1	7.0	TNTC
Mean				7.54	42.8	0.0	0.0	0.0	54.4	1.6	1.2	7.30	80.46
Std Dev				1.42	12.5	0.0	0.0	0.0	13.2	2.1	1.3	1.43	66.53
SEM				0.64	5.6	0.0	0.0	0.0	5.9	0.9	0.6	0.64	29.75
89F00337	F	2	7	7.9	44	0	0	0	55	1	0	9.0	TNTC
89F00358	F	2	7	5.4	36	0	0	0	64	0	0	17.9	TNTC
89F00371	F	2	7	5.4	31	0	0	0	69	0	0	TNTC	TNTC
89F00389	F	2	7	7.0	33	0	0	0	63	1	3	10.3	TNTC
89F00391	F	2	7	7.0	41	0	0	0	57	2	0	10.2	TNTC
Mean				6.54	37.0	0.0	0.0	0.0	61.6	0.8	0.6	11.85	150.00
Std Dev				1.10	5.4	0.0	0.0	0.0	5.6	0.8	1.3	4.08	0.00
SEM				0.49	2.4	0.0	0.0	0.0	2.5	0.4	0.6	2.04	0.00
89F00348	F	3	7	5.7	39	0	0	0	60	0	2	8.0	TNTC
89F00355	F	3	7	5.8	35	0	0	0	63	2	0	15.8	TNTC
89F00368	F	3	7	10.2	44	0	0	0	53	1	2	14.6	TNTC
89F00370	F	3	7	3.0	31	0	0	0	66	1	2	5.8	21.6
89F00383	F	3	7	4.5	36	0	0	0	60	2	2	7.8	TNTC
Mean				5.84	37.0	0.0	0.0	0.0	60.4	1.2	1.6	10.40	124.32
Std Dev				2.69	4.8	0.0	0.0	0.0	4.8	0.8	0.9	4.49	57.42
SEM				1.20	2.2	0.0	0.0	0.0	2.2	0.4	0.4	2.01	25.68

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00345	F	4	7	6.1	52	0	0	0	46	1	1	6.0	34.7
89F00354	F	4	7	7.6	48	0	0	0	50	1	1	12.0	TNTC
89F00374	F	4	7	6.2	31	0	0	0	68	0	1	12.8	TNTC
89F00380	F	4	7	11.6	30	0	0	0	65	1	4	6.8	85.4
89F00387	F	4	7	7.6	38	0	0	0	52	1	9	6.8	TNTC
Mean				7.82	39.8	0.0	0.0	0.0	56.2	0.8	3.2	8.88	114.02
Std Dev				2.23	9.9	0.0	0.0	0.0	9.7	0.4	3.5	3.24	52.43
SEM				1.00	4.4	0.0	0.0	0.0	4.3	0.2	1.6	1.45	23.45
89F00341	F	5	7	12.2	49	0	0	0	47	2	2	5.8	65.4
89F00347	F	5	7	9.4	28	0	0	0	72	0	0	8.0	TNTC
89F00360	F	5	7	8.0	33	0	0	0	64	0	3	11.8	TNTC
89F00375	F	5	7	7.8	20	0	0	0	73	1	6	9.5	TNTC
89F00394	F	5	7	8.6	21	0	0	0	73	1	5	5.7	24.7
Mean				9.20	30.2	0.0	0.0	0.0	55.8	0.8	3.2	8.16	108.02
Std Dev				1.79	11.8	0.0	0.0	0.0	11.2	0.8	2.4	2.58	59.26
SEM				0.80	5.3	0.0	0.0	0.0	5.0	0.4	1.1	1.16	26.50
89F00343	F	6	7	8.4	33	0	0	0	65	0	2	7.2	TNTC
89F00357	F	6	7	8.0	35	0	0	0	63	0	2	22.1	TNTC
89F00362	F	6	7	16.9	23	0	0	0	75	2	0	9.5	TNTC
89F00363	F	6	7	died									
89F00379	F	6	7	4.8	37	0	0	0	57	0	4	6.5	21.2
Mean				9.53	32.0	0.0	0.0	0.0	65.0	0.5	2.0	11.33	117.80
Std Dev				5.17	6.2	0.0	0.0	0.0	7.5	1.0	1.6	7.30	64.40
SEM				2.59	3.1	0.0	0.0	0.0	3.7	0.5	0.8	3.65	32.20



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00344	F	7	7	5.9	29	0	0	0	68	2	1	7.3	TNTC
89F00353	F	7	7	6.4	40	0	0	0	58	2	0	21.0	TNTC
89F00366	F	7	7	10.0	48	0	0	0	46	2	4	9.3	TNTC
89F00372	F	7	7	7.4	26	0	0	0	70	2	2	11.2	TNTC
89F00390	F	7	7	6.1	25	0	0	0	72	1	2	10.6	TNTC
Mean				7.36	33.6	0.0	0.0	0.0	62.8	1.8	1.8	11.88	150.00
Std Dev				1.56	10.0	0.0	0.0	0.0	10.8	0.4	1.5	5.31	0.00
SEM				0.70	4.5	0.0	0.0	0.0	4.8	0.2	0.7	2.38	0.00
89F00346	F	8	7	6.3	56	0	0	0	37	5	2	9.8	TNTC
89F00359	F	8	7	5.4	25	0	0	0	74	1	0	14.2	TNTC
89F00365	F	8	7	10.2	22	0	0	0	76	2	0	12.3	TNTC
89F00392	F	8	7	7.0	60	0	0	0	37	0	1	10.0	TNTC
89F00393	F	8	7	7.7	34	0	0	0	60	3	3	9.3	TNTC
Mean				7.32	39.4	0.0	0.0	0.0	56.8	2.2	1.2	11.12	150.00
Std Dev				1.82	17.6	0.0	0.0	0.0	19.1	1.9	1.3	2.07	0.00
SEM				0.81	7.9	0.0	0.0	0.0	8.5	0.9	0.6	0.93	0.00
89F00340	F	9	7	6.6	30	0	0	0	69	1	0	11.0	TNTC
89F00349	F	9	7	6.9	46	0	0	0	51	3	0	9.8	TNTC
89F00356	F	9	7	7.9	65	0	0	0	32	2	1	18.8	TNTC
89F00367	F	9	7	8.0	36	0	0	0	60	2	2	15.5	19.1
89F00384	F	9	7	7.7	26	0	0	0	69	2	3	6.2	TNTC
Mean				7.42	40.6	0.0	0.0	0.0	56.2	2.0	1.2	12.26	123.82
Std Dev				0.63	15.6	0.0	0.0	0.0	15.4	0.7	1.3	4.94	58.54
SEM				0.28	7.0	0.0	0.0	0.0	6.9	0.3	0.6	2.21	26.18

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00350	F	10	14	4.59	11.3	34.2	74.6	24.6	33.0	378	10.7	0
89F00351	F	10	14	5.60	12.5	37.5	66.9	22.3	33.3	552	11.2	0
89F00364	F	10	14	4.72	10.7	34.3	72.6	22.7	31.2	346	9.6	0
89F00373	F	10	14	4.34	10.3	31.0	71.5	23.7	33.2	573	9.3	0
89F00381	F	10	14	5.80	12.8	39.6	68.2	22.1	32.3	97	9.8	0
Mean				5.010	11.52	35.32	70.76	23.08	32.60	389.2	10.12	0.0
Std Dev				0.648	1.10	3.32	3.17	1.05	0.87	192.1	0.80	0.0
SEM				0.290	0.49	1.48	1.42	0.47	0.39	85.9	0.36	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00338	F	1	14	4.90	11.0	33.5	68.4	22.4	32.8	258	10.2	0
89F00339	F	1	14	4.02	9.3	28.6	71.1	23.1	32.5	447	10.8	0
89F00352	F	1	14	4.47	9.6	29.6	66.3	21.5	32.4	248	8.5	0
89F00369	F	1	14	4.64	10.3	31.8	68.6	22.2	32.4	367	11.0	0
89F00377	F	1	14	4.06	9.2	27.8	68.5	22.7	33.1	185	10.6	0
Mean				4.418	9.88	30.26	68.58	22.38	32.64	301.0	10.22	0.0
Std Dev				0.378	0.76	2.35	1.70	0.60	0.30	104.6	1.01	0.0
SEM				0.169	0.34	1.05	0.76	0.27	0.14	46.8	0.45	0.0
89F00337	F	2	14	3.72	8.8	26.7	71.9	23.7	33.0	360	10.8	0
89F00358	F	2	14	3.19	7.5	22.6	70.8	23.5	33.2	332	9.7	0
89F00371	F	2	14	3.04	6.9	21.7	71.4	22.7	31.8	305	9.5	0
89F00389	F	2	14	3.13	7.6	22.5	72.0	24.3	33.8	778	8.9	0
89F00391	F	2	14	3.70	8.9	27.0	73.0	24.1	33.0	348	9.3	0
Mean				3.356	7.94	24.10	71.82	23.66	32.96	424.6	9.64	0.0
Std Dev				0.328	0.87	2.54	0.81	0.62	0.73	198.6	0.71	0.0
SEM				0.147	0.39	1.13	0.36	0.28	0.32	88.8	0.32	0.0
89F00348	F	3	14	3.92	9.3	28.5	72.7	23.7	32.6	381	10.4	0
89F00355	F	3	14	3.43	8.0	24.4	71.1	23.3	32.8	299	9.4	0
89F00368	F	3	14	3.26	8.1	24.6	75.5	24.8	32.9	145	9.2	0
89F00370	F	3	14	3.64	9.0	27.1	74.4	24.7	33.2	247	9.8	0
89F00383	F	3	14	2.90	6.8	19.9	68.7	23.4	34.2	208	9.0	0
Mean				3.430	8.24	24.90	72.48	23.98	33.14	256.0	9.56	0.0
Std Dev				0.385	0.98	3.28	2.69	0.72	0.63	89.7	0.55	0.0
SEM				0.172	0.44	1.47	1.21	0.32	0.28	40.1	0.25	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00345	F	4	14	5.10	11.6	35.8	70.2	22.7	32.4	316	11.3	0
89F00354	F	4	14	4.65	10.5	32.6	70.2	22.6	32.2	503	11.4	0
89F00374	F	4	14	4.51	10.7	33.3	73.9	23.7	32.1	296	10.0	0
89F00380	F	4	14	4.63	10.9	34.8	75.1	23.5	31.3	484	9.2	0
89F00387	F	4	14	4.34	9.7	29.5	68.0	22.4	32.9	644	11.6	0
Mean				4.646	10.68	33.20	71.48	22.98	32.18	448.6	10.70	0.0
Std Dev				0.282	0.69	2.42	2.93	0.58	0.58	144.3	1.05	0.0
SEM				0.126	0.31	1.08	1.31	0.26	0.26	64.5	0.47	0.0
89F00341	F	5	14	5.01	11.9	35.5	70.8	23.8	33.5	421	10.0	0
89F00347	F	5	14	4.15	10.4	30.8	74.1	25.1	33.8	371	9.9	0
89F00360	F	5	14	4.53	10.2	30.8	68.1	22.5	33.1	246	10.1	0
89F00375	F	5	14	5.00	11.2	34.6	69.1	22.4	32.4	223	9.8	0
89F00394	F	5	14	2.40	5.7	17.1	71.1	23.8	33.3	146	9.5	0
Mean				4.218	9.88	29.76	70.64	23.52	33.22	281.4	9.86	0.0
Std Dev				1.078	2.43	7.40	2.29	1.11	0.53	112.4	0.23	0.0
SEM				0.482	1.09	3.31	1.03	0.50	0.24	50.3	0.10	0.0
89F00343	F	6	14	4.28	10.7	31.8	74.2	25.0	33.6	389	10.7	0
89F00357	F	6	14	4.80	10.9	33.2	69.2	22.7	32.8	426	11.4	0
89F00362	F	6	14	3.98	9.9	31.2	78.3	24.9	31.7	405	10.1	0
89F00363	F	6	14	died								
89F00379	F	6	14	4.89	10.8	33.2	67.8	22.1	32.5	297	9.2	0
Mean				4.488	10.58	32.35	72.38	23.68	32.65	379.3	10.35	0.0
Std Dev				0.432	0.46	1.01	4.81	1.49	0.79	56.9	0.93	0.0
SEM				0.216	0.23	0.51	2.41	0.75	0.39	28.44	0.47	0.0

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	RBC	HGB	HCT	MCV	MCH	MCHC	PLT	RET	NRBC
89F00344	F	7	14	4.30	9.5	29.3	68.2	22.1	32.4	262	10.2	0
89F00353	F	7	14	4.17	9.4	28.7	68.9	22.5	32.8	299	9.1	0
89F00366	F	7	14	3.82	8.8	25.8	67.6	23.0	34.1	310	9.1	0
89F00372	F	7	14	3.90	9.0	27.6	70.7	23.1	32.6	475	9.8	0
89F00390	F	7	14	4.30	9.4	28.9	67.3	21.9	32.5	302	10.8	0
Mean				4.098	9.22	28.06	68.54	22.52	32.88	329.6	9.80	0.0
Std Dev				0.225	0.30	1.41	1.35	0.53	0.70	83.4	0.73	0.0
SEM				0.101	0.14	0.63	0.61	0.24	0.31	37.3	0.33	0.0
89F00346	F	8	14	4.26	9.6	30.3	71.1	22.5	31.7	261	10.2	0
89F00359	F	8	14	3.82	9.0	27.3	71.5	23.6	33.0	93	9.9	0
89F00365	F	8	14	3.70	8.6	25.6	69.1	23.2	33.6	436	10.8	0
89F00392	F	8	14	3.56	8.2	24.7	69.5	23.0	33.2	289	9.7	0
89F00393	F	8	14	4.21	9.3	28.8	68.5	22.1	32.3	234	9.9	0
Mean				3.910	8.94	27.34	69.94	22.88	32.76	262.6	10.10	0.0
Std Dev				0.311	0.55	2.29	1.30	0.59	0.76	122.8	0.43	0.0
SEM				0.139	0.25	1.02	0.58	0.26	0.34	54.9	0.19	0.0
89F00340	F	9	14	3.42	8.1	25.8	75.3	23.7	31.4	305	8.8	0
89F00349	F	9	14	3.37	8.0	24.7	73.2	23.7	32.4	205	10.2	0
89F00356	F	9	14	3.66	9.1	26.9	73.5	24.9	33.8	238	9.4	0
89F00367	F	9	14	3.16	7.3	21.9	69.2	23.1	33.3	237	11.1	0
89F00384	F	9	14	4.07	9.0	27.4	67.4	22.1	32.8	292	9.5	1
Mean				3.536	8.30	25.34	71.72	23.50	32.74	255.4	9.80	0.2
Std Dev				0.347	0.75	2.19	3.29	1.02	0.92	41.8	0.88	0.4
SEM				0.155	0.34	0.98	1.47	0.46	0.41	18.7	0.39	0.2

## Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00350	F	10	14	4.4	23	0	0	0	74	1	2	7.3	25.6
89F00351	F	10	14	5.9	48	0	0	0	47	1	4	6.3	17.2
89F00364	F	10	14	7.4	33	0	0	0	61	0	6	7.0	33.3
89F00373	F	10	14	8.5	35	0	0	0	62	1	2	10.3	31.5
89F00381	F	10	14	4.6	27	0	0	0	68	1	4	TNTC	TNTC
Mean				6.16	33.2	0.0	0.0	0.0	62.4	0.8	3.6	7.73	51.52
Std Dev				1.78	9.5	0.0	0.0	0.0	10.1	0.4	1.7	1.77	55.41
SEM				0.79	4.3	0.0	0.0	0.0	4.5	0.2	0.7	0.88	24.78

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00338	F	1	14	7.6	49	0	0	0	45	1	5	13.6	TNTC
89F00339	F	1	14	4.9	44	0	0	0	52	1	3	7.0	27.0
89F00352	F	1	14	5.4	40	0	0	0	60	0	0	8.1	24.3
89F00369	F	1	14	7.0	36	0	0	0	58	1	5	8.2	28.0
89F00377	F	1	14	7.0	30	0	0	0	62	3	5	11.8	TNTC
Mean				6.38	39.8	0.0	0.0	0.0	55.4	1.2	3.6	9.74	75.86
Std Dev				1.16	7.3	0.0	0.0	0.0	6.9	1.1	2.2	2.82	67.69
SEM				0.52	3.3	0.0	0.0	0.0	3.1	0.5	1.0	1.26	30.27
89F00337	F	2	14	4.8	50	0	0	0	45	3	2	13.8	TNTC
89F00358	F	2	14	5.8	48	0	0	0	47	1	4	8.8	TNTC
89F00371	F	2	14	3.5	69	0	0	0	31	0	0	11.0	56.5
89F00389	F	2	14	4.7	31	0	0	0	65	2	2	6.8	85.8
89F00391	F	2	14	6.6	45	0	0	0	52	1	2	7.5	TNTC
Mean				5.08	48.6	0.0	0.0	0.0	48.0	1.4	2.0	9.58	118.46
Std Dev				1.18	13.6	0.0	0.0	0.0	12.3	1.1	1.4	2.85	44.41
SEM				0.53	6.1	0.0	0.0	0.0	5.5	0.5	0.6	1.27	19.86
89F00348	F	3	14	4.6	49	0	0	0	50	0	1	11.0	TNTC
89F00355	F	3	14	5.5	41	0	0	0	53	1	5	8.0	TNTC
89F00368	F	3	14	4.8	45	0	0	0	53	1	1	8.5	TNTC
89F00370	F	3	14	4.5	46	0	0	0	51	1	2	11.7	39.7
89F00383	F	3	14	3.8	48	0	0	0	52	0	0	7.4	TNTC
Mean				4.64	45.8	0.0	0.0	0.0	51.8	0.6	1.8	9.32	127.94
Std Dev				0.61	3.1	0.0	0.0	0.0	1.3	0.5	1.9	1.91	49.33
SEM				0.27	1.4	0.0	0.0	0.0	0.6	0.2	0.9	0.85	22.06

Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HET	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00345	F	4	14	3.2	37	0	0	0	61	1	0	6.3	34.8
89F00354	F	4	14	5.5	73	0	0	0	25	1	1	10.3	22.4
89F00374	F	4	14	7.7	34	0	0	0	52	5	9	17.9	TNTC
89F00380	F	4	14	9.0	39	0	0	0	53	4	4	6.8	52.8
89F00387	F	4	14	5.8	48	0	0	0	49	1	2	8.0	54.8
Mean				6.24	46.2	0.0	0.0	0.0	48.0	2.4	3.2	9.86	62.96
Std Dev				2.22	15.9	0.0	0.0	0.0	13.6	1.9	3.6	4.75	5.6
SEM				0.99	7.1	0.0	0.0	0.0	6.1	0.9	1.6	2.13	22.57
89F00341	F	5	14	7.2	52	0	0	0	44	2	2	2.5	3.6
89F00347	F	5	14	7.3	24	0	0	0	70	1	5	12.8	TNTC
89F00360	F	5	14	7.0	22	0	0	0	73	1	4	6.8	71.2
89F00375	F	5	14	4.9	21	0	0	0	79	0	0	7.2	TNTC
89F00394	F	5	14	3.5	60	0	0	0	38	0	2	8.0	24.0
Mean				5.98	35.8	0.0	0.0	0.0	60.8	0.8	2.6	7.46	79.76
Std Dev				1.70	18.7	0.0	0.0	0.0	18.5	0.8	1.9	3.67	68.65
SEM				0.76	8.4	0.0	0.0	0.0	8.3	0.4	0.9	1.64	30.70
89F00343	F	6	14	6.0	32	0	0	0	64	3	1	11.0	TNTC
89F00357	F	6	14	5.2	34	0	0	0	62	0	4	13.0	18.3
89F00362	F	6	14	4.6	50	0	0	0	40	2	8	6.5	63.6
89F00363	F	6	14	died									
89F00379	F	6	14	7.0	47	0	0	0	53	0	0	7.8	21.4
Mean				5.70	40.8	0.0	0.0	0.0	54.8	1.3	3.3	9.58	63.33
Std Dev				1.04	9.1	0.0	0.0	0.0	10.9	1.5	3.6	2.96	61.37
SEM				0.52	4.5	0.0	0.0	0.0	5.5	0.8	1.8	1.48	30.68



Appendix H (cont.): HEMATOLOGY

Animal Number	Sex	Group	Day	WBC	HEt	BAN	EOS	BAS	LYM	MON	ATL	PT	APPT
89F00344	F	7	14	5.5	55	0	0	0	41	1	3	7.3	TNTC
89F00353	F	7	14	4.7	41	0	0	0	55	1	3	8.7	TNTC
89F00366	F	7	14	6.8	22	0	0	0	77	0	1	6.8	36.6
89F00372	F	7	14	5.9	48	0	0	0	51	0	1	7.2	38.0
89F00390	F	7	14	4.4	24	0	0	0	74	1	1	7.8	TNTC
Mean				5.46	38.0	0.0	0.0	0.0	59.6	0.6	1.8	7.56	104.92
Std Dev				0.96	14.6	0.0	0.0	0.0	15.4	0.5	1.1	0.73	61.73
SEM				0.43	6.5	0.0	0.0	0.0	6.9	0.2	0.5	0.33	27.61
89F00346	F	8	14	3.1	31	0	0	0	62	2	5	33.0	TNTC
89F00359	F	8	14	3.3	27	0	0	0	72	1	0	8.6	31.6
89F00365	F	8	14	8.6	51	0	0	0	42	5	2	8.4	TNTC
89F00392	F	8	14	6.6	29	0	0	0	68	0	3	9.2	TNTC
89F00393	F	8	14	5.5	20	0	0	0	78	2	0	8.7	TNTC
Mean				5.42	31.6	0.0	0.0	0.0	64.4	2.0	2.0	13.58	126.32
Std Dev				2.31	11.6	0.0	0.0	0.0	13.8	1.9	2.1	10.86	52.95
SEM				1.03	5.2	0.0	0.0	0.0	6.2	0.8	0.9	4.86	23.68
89F00340	F	9	14	4.3	47	0	0	0	51	0	2	8.8	TNTC
89F00349	F	9	14	6.3	51	0	0	0	43	4	2	14.8	TNTC
89F00356	F	9	14	4.8	47	0	0	0	51	1	1	10.5	TNTC
89F00367	F	9	14	6.4	21	0	0	0	75	2	2	TNTC	TNTC
89F00384	F	9	14	6.6	50	0	0	0	47	2	1	8.2	35.6
Mean				5.68	43.2	0.0	0.0	0.0	53.4	1.8	1.6	10.58	127.12
Std Dev				1.05	12.5	0.0	0.0	0.0	12.5	1.5	0.5	2.98	51.16
SEM				0.47	5.6	0.0	0.0	0.0	5.6	0.7	0.2	1.49	22.88

## Appendix I: PATHOLOGY REPORT

Toxicology Study No. 88010M/F

Principal Investigator: Gary M. Zaucha, DVM, CPT, VC  
Co-Principal Investigator: Denzil F. Frost, DVM, CPT, VC  
Pathologist: Lu Ann McKinney, DVM, MAJ, VC

### Introduction

Type: Subacute rabbit intravenous toxicity  
Compound: Hypertonic saline/Dextran  
Animal: *Oryctolagus cuniculus* (New Zealand White)  
Male and Female juveniles

Groups 1,2,3: Hypertonic saline/Dextran 70®  
Groups 4,5,6: Hypertonic saline  
Groups 7,8,9: Dextran 70®/normal saline  
Group 10: Lactated Ringer's solution

Dose: 8,12,16 mg/kg/day

### Postmortem Examination

1. Tranquilization with Ketamine and Acepromazine, IM
2. Clinical lab samples for hematology and serology
3. Euthanasia with Pentobarbital overdose, IV
4. Fixative: immersion in 10% neutral-buffered formalin
5. Histopathology of all protocol tissues plus all gross lesions

### Pathologist's Comment

I. Pathology Tables 1, 2, 3, and 4 provide incidence summaries for gross necropsy observations for all animals, and microscopic observations for all dead animals, all scheduled sacrificed animals, and all unscheduled deaths, respectively. Individual animal pathology data are provided in the Pathology Annex.

II. At gross exam, lesions of the skin and vena cava were directly attributable to chronic catheterization. Erosions and swelling of the intermandibular space were co-located with the collars worn during the experiment. Hemorrhages in the lung and other acute lesions are considered to have occurred immediately antemortem. Additional findings of renal scarring are attributed to protozoal infection (*Encephalitozoon cuniculi*).

**Appendix I (cont.): PATHOLOGY REPORT**

III. Mammary tissue was rarely present in ventral-abdomena skin samples from the male rabbits, but was invariably present in the females. Paratnyroid glands were most frequently missing.

IV. Microscopic examination confirmed the phlebitis, and revealed numerous thromboses in the lung, kidney, and adrenal gland. Fibrosis and mineralization in muscular tissues are also attributed to thrombotic showers. Recorded histologic lesions of the skin were seen at catheterization sites.

Microscopic lesions of leptomeningitis, granulomatous encephalitis, and subacute interstitial nephritis are attributed to *Encephalitozoon cuniculi* infection.

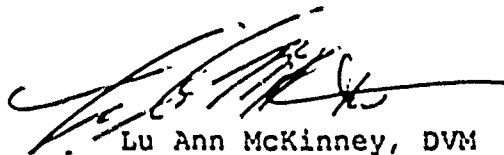
Various incidental lesions, including thyroglossal duct remnant cysts, and vacuolar change in the renal epithelial cells were seen in all groups.

Bacterial emboli were seen in various tissues of animals that were found dead. These represent postmortem growth in septicemic animals.

V. By the Kolmogorov-Smirnov 2-tailed test, no treatment group of either sex differed significantly from controls. Experimentally-induced lesions are a function of dosing technique: no lesions are attributed to compound or dose of compound.

**Summary**

Lesions in these rabbits are considered to be either incidental lesions, common to the species, or are associated with chronic catheterization and restraint. No morphologic evidence of toxicity with hypertonic saline/Dextran 70® was observed.



Lu Ann McKinney, DVM  
MAJ, VC  
Diplomate, ACVP

**Appendix I (cont.): PATHOLOGY REPORT**

**HISTOLOGIC DIAGNOSES**

**Adrenal gland:**

1. Inflammation, interstitial, subacute - small aggregates of perivascular lymphocytes.
2. Necrosis, coagulative, cortical - foci of 10 to 25 cells found in the fascicularis, and with minimal cellular response.
3. Arterial thrombus and necrosis - Presence of an occlusive thrombus in the adrenal artery and anatomically associated area of coagulative necrosis.
4. Bacterial emboli - focal bacterial colonies expanding vessels, with little associated parenchymal reaction.

**Aorta:**

1. Degeneration, media, subacute - foci of disoriented and fragmented elastin and nuclear debris with minimal fibroblast proliferation.
2. Degeneration and mineralization, media - focus of marked disorientation and disruption of the media with fragments of mineral; distortion of the wall with a subsequent bulge into the lumen.

**Brain:**

1. Inflammation, perivascular, subacute - lymphocytic cuffs around the leptomeningeal vessels within the neuropil with expansion of the Virchow-Robbins space.
2. Inflammation, granulomatous - focal aggregates of macrophages about small centers of necrosis.
3. Inflammation, leptomeninges, subacute - foci of lymphocytes and plasma cells within the meninges over the brain.

**Cecum:**

1. Inflammation, mucosal, subacute - focal and confluent aggregates of plasma cells and lymphocytes expanding cecal folds and elevating mucosa.

**Diaphragm:**

1. Degeneration and mineralization, chronic - fibers characterized by loss of striations, sometimes replaced by fibroblasts or fibrous tissue, containing variable amounts of mineral fragments.
2. Inflammation, subacute - small numbers of lymphocytes about vessels and between myofibers.

# **Appendix I (cont.): PATHOLOGY REPORT**

## **Eye and Optic nerve:**

1. Inflammation, subacute, choroid - aggregates of plasma cells and lymphocytes about small vessels of retinal choroid.

## **Gall bladder:**

1. Edema, mucosa, acute - separation of mucosal connective tissues by diffuse faintly staining eosinophilic material.

## **Gut Lymph Tissue:**

1. Necrosis and Lymphorrhexis - acute cell death within germinal centers deep to the domes.

## **Heart:**

1. Thrombus, mural - an organized, fibrous thrombus adhered to the endocardium.

2. Inflammation, interstitial, subacute - small aggregates of lymphocytes about arterioles and between myocardial fibers.

3. Inflammation, interstitial, acute, with bacteria - interfiber foci of neutrophils about bacterial colonies.

## **Kidney:**

1. Inflammation, interstitial, subacute - aggregates of lymphocytes and plasma cells about intra-renal vessels.

2. Vacuolation of tubular epithelium - clusters of tubular cross-sections, (of a single nephron) with epithelial cells expanded by multiple, small, clear intra-cytoplasmic vacuoles that fail to displace the nucleus.

3. Inflammation, acute, renal pelvis - neutrophilic infiltrates that fill the collecting ducts and are in the interstitium of the papilla.

4. Necrosis, tubular, acute (or coagulative) - coagulative necrosis of the tubular epithelium of individual nephron units.

5. Dilated tubules/dilation, tubular lumina - clusters of tubular lumens are dilated and ectatic, lined by flattened, attenuated epithelium.

6. Inflammation, chronic-active - foci of neutrophils, macrophages and some fibroblasts at the level of the arcuate vessels.

7. Vasculitis, perirenal fat, subacute - perivascular lymphocytes and plasma cells around the small arterioles in the pelvic fat.

8. Bacterial emboli in the uriniferous space - colonies of dark-staining coccoid organisms fill the tubular lumens or

## Appendix I (cont.): PATHOLOGY REPORT

Bowman's space. The colonies conform to the shape of the lumen.

9. Inflammation, renal pelvis, subacute - lymphoid aggregates in the renal papilla.

10. Thrombosis and infarction, parenchyma - thrombi lodged in arcuate arteries with anatomically related areas of the kidney undergoing coagulative necrosis.

### Lacrimal Gland:

1. Inflammation, interstitial, subacute - aggregates of lymphocytes in the adventitia and inter-lobular connective tissue.

2. Necrosis, coagulative, parenchyma - discrete areas of necrosis, involving individual lobules, with minimal inflammatory response.

3. Inflammation, interstitial and adventitial, chronic - fibrosis and scarring in the inter-lobular adventitia.

4. Hemorrhage, acute - extravasated blood in the interlobular septae and the adventitia of the gland.

### Liver:

1. Subacute, periportal inflammation - aggregates of lymphocytes and plasma cells and some macrophages in the portal triads and in the adventitia of bile ductules.

2. Necrosis, coagulative, parenchymal - random foci of coagulative necrosis with some minimal neutrophil infiltrates.

3. Bacterial emboli - small colonies of dark-staining coccoid bacteria within sinusoids; minimal cellular response.

4. Congestion, vascular, acute - marked distention of the central veins and sinusoids by blood.

5. Inflammation, parenchyma, pyogranulomatous - random foci of macrophages surrounding small numbers of neutrophils and necrotic/lytic hepatocytes.

6. Hemorrhage, acute - disruption of the hepatic cords and the limiting plate by free blood.

7. Reduplication/hyperplasia, bile ductules - the numbers of cross-sections of bile ductules is markedly increased over normal and the cross-sections are seen distant from the larger portal triads.

### Lungs:

1. Inflammation, interstitial, subacute - populations of macrophages and lymphocytes and some heterophils about lobular vessels and in clusters at the junctions of alveoli.

# **Appendix I (cont.): PATHOLOGY REPORT**

2. Inflammation, perivascular, acute - infiltrates of heterophils about arterioles.

3. Inflammation, interstitial, acute - infiltrates of heterophils about arterioles and at the junctions of alveolar septae.

4. Histiocytosis, alveolar - individual alveoli filled with large, pale-staining foamy macrophages.

5. Congestion, vascular, acute - marked distention of the alveolar septae by blood.

6. Vasculitis, necrotizing, chronic, with thrombus - small arteries distended by fibrous thrombi, sometimes recanalized, with thickened walls infiltrated by neutrophils and macrophages with variable mineralization.

7. Hemorrhage, intra-alveolar, acute - foci of 4-5 blood filled alveoli.

8. Infarct, vascular, chronic - lobular pattern of coagulative necrosis with or without attendant hemorrhage, associated with a vessel occluded by a thrombus.

9. Bacterial emboli - masses of large coccoid bacteria in vessels.

## **Mammary Gland:**

1. Necrosis, acute - necrosis and neutrophil infiltration of foci of 1-3 gland alveoli.

## **Miscellaneous:**

1. Phlebitis, chronic-active, vena cava - inflammation of the wall of the vein, ranging from focal thickening with rare macrophages to total obliteration by edema, hemorrhage, necrosis and neutrophils.

2. Thrombosis, chronic, vena cava - presence of a large thrombus of maturity ranging from fibrinous to re-canalized, mineralized fibrous tissue.

3. Inflammation, chronic-active, lip - cheilitis characterized by erosion of the epithelium and granulation tissue of the underlying dermis.

4. Inflammation, subacute, adipose tissue - fatty tissue infiltrated by lymphocytes and plasma cells; modest degeneration of the fat.

## **Ovaries:**

1. Para-ovarian cyst - thin cyst wall adjacent to the ovary, extending from the mesovarium.

## **Salivary Gland:**

1. Inflammation, interstitial, chronic - fibrosis of the interlobular septae.

**Appendix I (cont.): PATHOLOGY REPORT**

2. Inflammation, interstitial, sub-acute - lymphocytic infiltrates of the septae and adventitia.

3. Necrosis and chronic-active cellulitis - necrosis of the glandular elements, with neutrophilic infiltrates and fibroblastic attempts at repair in the surrounding adventitia.

4. Hemorrhage and edema, acute - free blood pooling between lobules, and marked edema of the interstitium and adventitia of the gland.

**Sciatic Nerve:**

1. Inflammation, perineural fat, acute - degeneration and necrosis of the fat about the sciatic nerve.

**Skin:**

1. Edema, subcutis - subcuticular fibers are spread apart by pale-staining edema.

2. Inflammation, chronic-active - scattered populations of neutrophils about degenerating cells, with fibroplasia.

3. Necrosis and acute inflammation, epidermis - necrosis and erosion of the superficial epidermis, with or without a crust, and predominately neutrophils at the dermal-epidermal junction.

4. Vasculitis, subacute, dermis - lymphocytic cuffing of deeper dermal vessels.

5. Hemorrhage, subcutis - free blood separating loose areolar connective tissue of the hypodermis.

6. Granulation with cyst formation, subcutis - macrophages and fibroblasts surrounding a large empty space in the hypodermis.

7. Inflammation, chronic-active, with necrosis, subcutis - focus of liquefactive necrosis surrounded by neutrophils and fibroplasia.

8. Granulation and suture material - neovascularization, granulomatous inflammation, and multinucleated giant cells about birefringent material (suture material) in the subcutis.

**Skeletal muscle:**

1. Inflammation, myofiber, subacute - myofiber replaced by a lymphocytic infiltrate.

2. Inflammation, interstitium/adventitia, chronic - fibroplasia and scarring between muscle bundles.

3. Inflammation, and scarring - as no. 2, but with distortion of the myofibers by contraction.



**Appendix I (cont.): PATHOLOGY REPORT**

**Spinal cord:**

1. Inflammation, subacute - lymphocytic cuffs of the leptomeningeal vessels.

**Stomach:**

1. Ulceration and inflammation, mucosa, acute - necrosis and loss of cells in the superficial neck cells, extending to the upper one-third of the gastric pits, with infiltrates of neutrophils and rare macrophages.

**Thyroid Gland:**

1. Cyst, thyro-glossal duct remnant - uniloculated cystic space, filled with protein fluid and lined by variably ciliated cells; routinely found at the hilus.

2. Cyst, follicular - uni- to multiloculated cystic space filled with thyroglobulin and lined by attenuated follicular cells.

**Trachea:**

1. Congestion, vascular, acute - dilated vessels in the submucosal and mucosal arterioles and venules.

**Urinary bladder:**

1. Inflammation, interstitial/submucosa, subacute - lymphocytic infiltrates in the wall and sub-serosa.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary Report for Gross Necropsy Observations  
Study Number: 88010M  
Report includes all dead animals  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 1  
SUB-ACUTE/

	Males					Females				
	1	2	3	4	5	6	7	8	9	
cells	5	5	5	5	5	5	5	5	5	
ADRENAL GLANDS										
ENLARGED, UNILATERALLY	0	1	0	0	0	1	0	0	0	0
GROWTH(S)/MASS(ES)	0	0	0	1	0	0	0	0	0	0
Total:	0	1	0	1	0	1	0	0	0	0
EYES & OPTIC N.										
HEMORRHAGE, RETROBULBAR	0	0	0	0	0	0	0	1	0	0
Total:	0	0	0	0	0	0	0	1	0	0
GALL BLADDER										
ABSENT	0	0	0	0	1	0	0	0	0	0
Total:	0	0	0	0	1	0	0	0	0	0
GUT LYMPH TISSUE										
ATROPHY	0	0	0	0	1	0	0	0	0	0
Total:	0	0	0	0	1	0	0	0	0	0
HEART										
INFARCTION(S)/SCAR(S)	0	1	0	0	0	0	0	0	0	0
THROMBUS	0	0	0	0	0	0	0	0	0	1
Total:	0	1	0	0	0	0	0	0	0	1
KIDNEY										
INFARCT	0	2	0	0	1	0	1	0	0	0
HEMORRHAGE(S)	0	0	0	1	0	0	0	0	0	0
FOCI	0	0	0	1	0	0	0	0	0	0
Total:	0	2	0	2	1	0	1	0	0	0
LIVER										
DISSEMINATED FOCI	0	0	0	0	0	0	1	0	0	0
LIPIDOSIS	0	0	1	1	1	0	0	1	0	0
FOCUS	0	0	0	1	1	0	0	0	0	0
Total:	0	0	1	2	2	0	1	1	0	0
LIP										

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary Report for Gross Necropsy Observations  
Study Number: 88010H  
Report includes all dead animals  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 2

SUB-ACUTE/

-- Males --

Ctl's	1	2	3	4	5	6	7	8	9
5	5	5	5	5	5	5	5	5	5

## LIP

ULCER	0	0	0	1	0	0	0	0	0	0	0
Total:	0	0	0	1	0	0	0	0	0	0	0

## LUNGS

HEMORRHAGE(S)	0	0	0	0	2	0	0	1	0	1	0
HEMORRHAGE(S)	0	0	0	1	0	0	0	0	0	0	0
PETECHIAE	0	0	1	1	0	0	0	0	0	0	1
DISSEMINATED FOCI	0	1	0	0	0	0	0	0	0	0	0
FOCUS	0	0	0	1	0	0	0	0	0	0	0
HEMORRHAGE(S)	0	0	0	0	0	0	1	0	0	0	0
CONGESTION	0	0	0	0	0	0	0	0	0	0	1
Total:	0	1	1	3	2	0	1	1	0	0	3

## SKIN

FISSURE(S)	0	0	0	0	1	0	0	0	0	0	0
EDEMA	0	0	0	1	0	1	0	0	0	0	2
ABSCESSES	0	0	0	0	0	1	0	0	0	0	0
ULCER	0	0	0	0	0	0	0	0	0	0	1
FOCAL THICKENING	0	0	0	0	0	0	0	0	0	0	1
INFLAMMATION	0	0	0	0	1	1	1	0	0	0	0
Total:	0	0	0	1	2	3	1	0	0	0	4

## SKELETAL MUSCLE

NECROSIS	0	0	0	1	0	0	0	0	0	0	0
HEMORRHAGE(S)	0	0	0	1	0	0	0	0	0	0	0
Total:	0	0	0	2	0	0	0	0	0	0	0

## SPLEEN

ENLARGED(SPLENOMEGALY)	0	1	0	0	0	0	0	0	0	0	0
Total:	0	1	0	0	0	0	0	0	0	0	0

## STOMACH

ULCER	0	0	0	0	0	0	0	1	0	0	0
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PATHOLOGY TABLE 1 (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary Report for Gross Necropsy Observations  
Study Number: 86010K  
Report includes all dead animals  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 3

SUB-ACUTE/

	.. Males ..									
	1	2	3	4	5	6	7	8	9	
Cells	5	5	5	5	5	5	5	5	5	
STOMACH										
TRICHOBEZOAR	0	0	0	0	1	0	0	0	0	0
Total:	0	0	0	0	1	0	0	1	0	0
URINARY BLADDER										
EDEMA	0	1	0	0	0	0	0	0	0	0
ABNORMAL URINE	0	0	0	0	0	0	0	1	0	0
Total:	0	1	0	0	0	0	0	1	0	0
VERTEBRAL BODY										
FRACTURE	0	0	0	1	0	0	0	0	0	0
Total:	0	0	0	1	0	0	0	0	0	0
VEHA CAVA										
THROMBUS	0	0	1	0	1	0	1	0	0	1
Total:	0	0	1	0	1	0	1	0	0	1
WHOLE BODY										
NO LESIONS RECOGNIZED	5	3	3	0	1	3	2	2	3	1
Total:	5	3	3	0	1	3	2	2	3	1

PATHOLOGY TABLE 1 (cont.)



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary Report for Gross Necropsy Observations  
Study Number: 88010f  
Report Includes all dead animals  
Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 2

SUB-ACUTE/

.. Females ..

Cells 1 2 3 4 5 6 7 8 9  
5 5 5 5 5 5 5 5 5

## OVARIES

PARA-OVARIAN CYST(S) .....  
Total: ..... 0 2 0 0 0 0 0 0 0 0 0 0

## SALIVARY GLAND

HEMORRHAGE(S) .....  
Total: ..... 0 0 0 0 1 0 0 0 1 1 1

## SKIN

EDEMA .....  
INFLAMMATION .....  
EROSION .....  
ULCER .....  
HEMATOMA .....  
Total: ..... 0 0 2 1 0 0 0 0 1 0 0 0  
0 1 0 0 0 1 0 0 0 0 0 0  
0 0 0 2 0 1 0 0 0 0 0 0  
0 1 0 0 1 0 0 1 0 0 0 0  
0 0 0 1 0 0 0 0 0 0 0 0  
Total: ..... 0 2 2 4 1 1 0 2 0 0 0 0

## STOMACH

TRICHOBEZOAR .....  
Total: ..... 0 0 0 0 0 0 0 1 0 0 0 0  
0 0 0 0 0 0 0 1 0 0 0 0

## TRACHEA

CYST .....  
Total: ..... 0 1 0 0 0 0 0 0 0 0 0 0  
0 1 0 0 0 0 0 0 0 0 0 0

## URINARY BLADDER

ABNORMAL URINE .....  
Total: ..... 0 0 1 0 0 0 0 0 0 0 0 0  
0 0 1 0 0 0 0 0 0 0 0 0

## VERTEBRAL BODY

FRACTURE .....  
Total: ..... 0 0 0 0 0 0 1 0 0 0 0 0  
0 0 0 0 0 0 1 0 0 0 0 0

## VENA CAVA

THROMBUS ..... 3 3 5 3 4 2 1 4 3 4

PATHOLOGY TABLE 1 (cont.)



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010M  
All Diagnoses

Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 1

SUB-ACUTE/

Notes: Animals = all dead animals Controls from group(s):10		-- Animals --		Affected	
		-- Males --			
Tissues With Diagnoses		Ctts		Ctts	
		No. in group:		No. in group:	
		Number examined:		Number examined:	
ADRENAL GLANDS		5	5	5	5
NECROSIS, COAGULATIVE, CORTICAL		0	1	0	0
ARTERIAL THROMBUS AND NECROSIS		0	0	1	0
BACTERIAL EMBOLI		0	0	1	0
AORTA		5	5	5	5
DEGENERATION, MEDIA, SUBACUTE		0	0	0	1
DEGENERATION AND MINERALIZATION, MEDIA		0	0	1	0
BONE MARROW		5	5	5	5
BRAIN		5	5	5	5
INFLAMMATION, PERIVASCULAR, SUBACUTE		0	0	0	1
INFLAMMATION, GRANULOMATOUS		0	0	0	0
CECUM		5	5	5	5
COLON		5	5	5	5
DIAPHRAGM		5	5	5	5
DEGENERATION AND MINERALIZATION, CHRONIC		0	0	1	0
DUODENUM		5	5	5	5
EPIDIDYMUS		5	5	5	5
ESOPHAGUS		5	5	5	5





## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations

Study Number: 88010X

All Diagnoses

Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 3

SUB-ACUTE/

Notes: Animals = all dead animals

Controls from group(s): 10

-- Animals Affected --

-- Males --

Animal sex:

Dosage group:

No. in group:

Tissues With Diagnoses

Number examined:

Number examined:

Number examined:

Number examined:

Number examined:

Number examined:

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PATHOLOGY TABLE 2 (cont.)



# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
 Study Number: 88010K  
 All Diagnoses  
 Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
 Page: 5

SUB-ACUTE/

Notes: Animals = all dead animals Controls from group(s):10		-- Animals --		Affected --	
		-- Males --			
Tissues	With Diagnoses	Animal sex:	Dosage group:	No. in group:	
THYROID GLAND		5	5	5	5
CYST, THYRO-GLOSSAL DUCT REMNANT		1	0	0	1
THYMUS		5	5	4	5
TRACHEA		5	5	4	5
URINARY BLADDER		5	4	5	5
INFLAMMATION, INTERSTITIAL, SUBACUTE		0	0	1	0
URETER		5	5	5	5

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations

Study Number: 88010f

All Diagnoses

Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 1

RABBIT/NEW ZEALAND WHITE										Study Start Date: 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## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

**Incidence Summary of Microscopic Observations**  
**Study Number: 4-10F**  
**All Diagnoses**  
**Study Start Date: 30-Mar-89**

PRINTED: 22-Sep-89  
Page: 2

**Notes: Animals = all dead animals  
Controls from group(s):10**

--animal-- Accepted--

**Notes:** Animals = all used animals  
Controls from group(s):10

[illegible]

Number examined: .....

5  
5  
5  
5  
5  
5  
5  
5  
5  
5

HEART	Number examined:
INFLAMMATION, INTERSTITIAL, SUBACUTE	
INFLAMMATION, INTERSTITIAL, ACUTE, WITH BACTERIA	

510  
510  
520  
500  
500  
500  
520  
501  
500  
511

Number examined.....

3  
3  
3  
3  
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3

..... Number examined: 1

3  
3  
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KIDNEY	.....Number	examined
INTERSTITIAL INFLAMMATION, SUBACUTE		
VACUOLATED TUBULAR EPITHELIUM		
INFLAMMATION, ACUTE, RENAL PELVIS		
NECROSIS, TUBULAR, ACUTE		
DILATED TUBULES		

[illegible]

LAC. GLD. ....Number examined:  
MENORRHAGE. ACUTE

no  
no  
no  
no  
no  
no  
no  
no  
no  
no

LIVER	.....	Number	examined:
INFLAMMATION, SUBACUTE, PERIportal			
CONGESTION, VASCULAR, ACUTE			
INFLAMMATION, PARENCHYMA, PYOGRANULOMATOUS			
HEMORRHAGE, ACUTE			
REDUPLICATION/HYPERPLASIA, BILE DUCTULES			

NM0000  
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LUNGS	.....	Number examined:
INFLAMMATION, INTERSTITIAL, SUBACUTE		
INFLAMMATION, PERIVASCULAR, ACUTE		
ALVEOLAR HISTIOCYTOSIS		
VASCULAR CONGESTION, ACUTE		

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**PATHOLOGY TABLE 2 (cont.)**



# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010F  
All Diagnoses  
Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 4

Notes: Animals = all dead animals  
Controls from group(s):10

SUB-ACUTE/

Tissues With Diagnoses	Animals Affected		females		Affected	
	Ctts	1	2	3	4	5
SKIN	5	5	5	5	5	5
EDEMA, SUBCUTIS	5	5	5	5	5	5
INFLAMMATION, CHRONIC-ACTIVE	0	2	1	1	0	0
NECROSIS, AND ACUTE INFLAMMATION, EPIDERMIS	0	1	0	1	0	0
VASCULITIS, SUBACUTE, DERMIS	0	0	1	0	1	0
HEMORRHAGE, SUBCUTIS	0	0	0	1	0	0
SKELETAL MUSCLE	5	5	5	5	5	5
INFLAMMATION, MYOFIBER, SUBACUTE	0	0	0	0	0	0
INFLAMMATION, INTERSTITIUM/ADVENTITIA, CHRONIC	0	0	0	0	1	0
SCIATIC NERVE	5	5	5	5	5	5
INFLAMMATION, PERINEURAL FAT, ACUTE	0	0	0	0	0	1
SPLEEN	5	5	5	5	5	5
STOMACH	5	5	5	5	5	5
THYROID GLAND	5	5	5	5	5	5
CYST, THYRO-GLOSSAL DUCT REMNANT	3	3	4	1	3	2
CYST, FOLLICULAR	1	0	0	0	0	0
THYHUS	5	5	5	5	5	5
TRACHEA	5	5	5	5	5	5
CONGESTION, VASCULAR, ACUTE	0	0	0	0	0	0
URINARY BLADDER	5	5	5	5	5	5
INFLAMMATION, INTERSTITIAL-SUBMUCOSAL, SUBACUTE	0	0	0	1	0	0



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010F  
All Diagnoses  
Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 5

Study Start Date: 30-May-89

SUB-ACUTE /

Notes: Animals = all dead animals  
Controls from group(s):10

-- Animals affected --  
-- Females --

Controls from group(s):10	With doses	Doses	No. in group:	Dosage group:	Animal sex:
10	10	10	10	10	10

Cols	1	2		-- Females --	6	7	8	9
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Tissues With Diagnoses	No. in group:
.....	.....
URETER .....	Number examined:
	.....

**URETER** .....Number examined:

Number examined: .....

5 5 5 5 5 5 5 5 5 5

**PATHOLOGY TABLE 2 (cont.)**

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010M  
All Diagnoses  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 1

Study Start Date: 25-Apr-89										SUB-ACUTE/	
RABBIT/NEW ZEALAND WHITE											
Notes: Animals = all scheduled sacrificed animal											
Controls from group(s):10											
Tissues With Diagnoses											
ADRENAL GLANDS											
NECROSIS, COAGULATIVE, CORTICAL											
ARTERIAL THROMBUS AND NECROSIS											
BACTERIAL EMBOLI											
AORTA											
DEGENERATION, MEDIA, SUBACUTE											
DEGENERATION AND MINERALIZATION, MEDIA											
BONE MARROW											
BRAIN											
INFLAMMATION, PERIVASCULAR, SUBACUTE											
INFLAMMATION, GRANULOMATOUS											
CECUM											
COLON											
DIAPHRAGM											
DEGENERATION AND MINERALIZATION, CHRONIC											
DUODENUM											
EPIDIDYMUS											
ESOPHAGUS											
ANIMALS AFFECTED											
Males											
Ctts											
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## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010H  
All Diagnoses

PRINTED: 22-Sep-89  
Page: 2

Study Start Date: 25-Apr-89

SUB-ACUTE/

Notes: Animals = all scheduled sacrificed animal

Controls from group(s): 10

Animal sex:

Dosage group:

No. in group:

Tissues With Diagnoses

EYES & OPTIC N.

Number examined:

GALL BLADDER

Number examined:

GUT LYMPH TISSUE

Number examined:

NECROSIS AND LYMPHORRHESIS, LYMPHOID TISSUE

HEART

THROMBUS, MURAL

INFLAMMATION, INTERSTITIAL, SUB-ACUTE

Number examined:

ILEUM

Number examined:

JEJUNUM

Number examined:

KIDNEY

INFLAMMATION, INTERSTITIAL, SUBACUTE

VACUOLATION, TUBULAR EPITHELIUM

INFLAMMATION, CHRONIC-ACTIVE

NECROSIS, TUBULAR, COAGULATIVE

VASCULITIS, PERITRENA FAT, SUBACUTE

BACTERIAL EMBOLI IN URINIFEROUS SPACE

INFLAMMATION, REVAL PELVIS, SUBACUTE

THROMBOSIS AND INFARCTION, PARENCHYMA

DILATION, TUBULAR LUMENA

LAC. GLD.

INFLAMMATION, INTERSTITIAL, SUBACUTE

NECROSIS, COAGULATIVE, PARENCHYMA

INFLAMMATION, INTERSTITIAL AND ADVENTITIAL, CHRONIC

-J

-- Animals Affected --

-- Males --

Ctts 1 2 3 4 5 6 7 8 9

5 5 5 4 5 5 5 3 5

5 5 5 4 5 5 5 4 3 5

5 5 4 3 4 5 5 4 3 5

5 5 5 4 5 5 5 4 3 5

0 0 0 0 1 0 0 0 0 0

5 5 5 4 5 5 5 5 3 5

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5 5 5 4 5 5 5 5 4 3 5

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# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIOJO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010M  
All Diagnoses  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 3

Notes: Animals = all scheduled sacrificed animal  
Controls from group(s):10

Tissues With Diagnoses	Animals Affected		Sub-Acute	
	Animals	Affected	Sub-Acute	Sub-Acute
LIVER	5	5	5	5
INFLAMMATION, PERIportal, SUBACUTE	1	0	0	0
NECROSIS, COAGULATIVE, PARENCHYMAL	0	0	1	0
BACTERIAL EMBOLI	0	0	0	0
LYMPH NODES	5	5	5	5
LUNGS	5	5	5	5
INFLAMMATION, INTERSTITIAL, SUBACUTE	5	5	5	5
HISTIOCYTOSIS, ALVEOLAR	0	0	0	0
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS	0	1	0	0
HEMORRHAGE, INTRA-ALVEOLAR, ACUTE	0	1	0	0
INFARCT, VASCULAR, CHRONIC	0	0	0	0
BACTERIAL EMBOLI, INTRAVASCULAR	0	0	0	0
MAMMARY GLAND	0	1	0	0
MESEN. LYMPH NODE	3	4	3	4
MISCELLANEOUS	5	5	5	5
PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA	0	0	0	0
THROMBOSIS, CHRONIC, VENA CAVA	0	2	0	0
INFLAMMATION, SUBACUTE, ADIPOSE TISSUE	0	0	0	0
PANCREAS	5	5	5	5
PITUITARY GLAND	4	5	4	5

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010X  
All Diagnoses

Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 4

SUB-ACUTE/

Notes: Animals = all scheduled sacrificed animal  
Controls from group(s):10

-- Animals Affected --

Animal sex: Males

Dosage group:

No. in group:

Tissues With Diagnoses

Ctts 1 2 3 4 5 6 7 8 9

PROSTATE .....Number examined: 5 4 5 4 5 5 5 4 3 5

PARATHYROID .....Number examined: 5 4 2 3 5 4 5 4 3 4

SPINAL CORD .....Number examined: 5 5 5 3 5 5 5 5 3 5

SALIVARY GLAND .....Number examined: 5 5 5 4 5 4 5 5 3 5

INFLAMMATION, INTERSTITIAL, CHRONIC .....Number examined: 0 1 1 0 0 0 0 0 0 0

SKIN .....Number examined: 5 4 4 4 5 5 5 4 3 5

GRANULATION AND SUTURE MATERIAL .....Number examined: 0 0 0 1 0 0 0 0 0 0

INFLAMMATION, CHRONIC-ACTIVE .....Number examined: 0 0 0 0 1 0 0 0 0 0

NECROSIS AND ACUTE INFLAMMATION, EPIDERMIS .....Number examined: 0 0 0 0 1 0 0 0 1 2

INFLAMMATION, CHRONIC ACTIVE, AND NECROSIS, SUBCUTIS .....Number examined: 0 0 0 0 0 0 0 0 0 0

GRANULATION TISSUE, WITH CYST FORMATION, SUBCUTIS .....Number examined: 0 0 0 0 0 0 0 0 0 0

EDEMA, SUBCUTIS, ACUTE .....Number examined: 0 0 0 0 0 0 0 0 0 1

SKELETAL MUSCLE .....Number examined: 5 5 5 4 5 5 5 4 3 5

INFLAMMATION, AND SCARRING, CHRONIC .....Number examined: 0 0 0 2 0 0 0 1 0 0

SCIATIC NERVE .....Number examined: 5 5 5 4 5 5 5 5 3 5

SPLEEN .....Number examined: 5 5 4 4 5 5 5 4 3 5

STOMACH .....Number examined: 5 5 5 4 5 5 5 4 3 5

ULCERATION AND INFLAMMATION, MUCOSA, ACUTE .....Number examined: 0 0 0 0 0 0 0 0 1 0

TESTIS .....Number examined: 5 4 5 4 5 5 5 4 3 5

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010M  
All Diagnoses  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 5

SUB-ACUTE/

Notes: Animals = all scheduled sacrificed animal Controls from group(s):10		-- Animals Affected --									
		Males									
		1	2	3	4	5	6	7	8	9	
Tissues With Diagnoses		Ctts	5	5	4	5	5	5	3	5	
THYROID GLAND		5	5	5	4	5	5	5	3	5	
CYST, THYRO-GLOSSAL DUCT REMNANT		1	0	0	0	0	0	0	1	0	
THYMUS		5	5	5	3	4	5	4	3	3	
TRACHEA		5	5	4	4	5	5	5	3	5	
URINARY BLADDER		5	4	5	4	5	5	5	4	3	
INFLAMMATION, INTERSTITIAL, SUBACUTE		0	0	1	0	0	0	0	0	0	
URETER		5	5	5	4	5	5	5	3	3	

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010f  
All Diagnoses

Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 1

SUB-ACUTE/

Notes: Animals = all scheduled sacrificed animal  
Controls from group(s):10

-- Animals Affected --

--- Females ---

Tissues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctts	1	2	3	4	5	6	7	8	9
ADRENAL GLANDS	Number examined:	5	5	5	5	5	5	5	5	5	5
INFLAMMATION, INTERSTITIAL, SUBACUTE		0	1	0	0	0	0	0	0	0	0
AORTA	Number examined:	5	5	5	5	5	5	5	5	5	5
BRAIN	Number examined:	5	5	5	5	5	5	5	5	5	5
INFLAMMATION, PERIVASCULAR, SUBACUTE		2	1	3	1	1	2	0	1	1	3
INFLAMMATION, GRANULOMATOUS		2	0	3	1	1	2	0	1	1	2
INFLAMMATION, LEPTOMENINGES, SUBACUTE		0	0	0	0	0	0	0	0	1	0
CECUM	Number examined:	5	5	5	5	5	5	5	5	5	5
INFLAMMATION, MUCOSAL, SUBACUTE		0	0	0	0	1	0	0	0	0	0
COLON	Number examined:	5	5	5	5	5	5	5	5	5	5
DIAPHRAGM	Number examined:	5	4	4	5	3	5	2	5	5	5
INFLAMMATION, INTERSTITIAL, SUBACUTE		0	0	1	1	0	0	0	0	1	1
DUODENUM	Number examined:	5	5	5	5	5	5	5	5	5	5
ESOPHAGUS	Number examined:	5	5	5	5	5	5	5	5	5	5
EYES & OPTIC N.	Number examined:	5	5	5	5	5	5	5	5	5	5
INFLAMMATION, SUBACUTE, CHOROID		0	0	1	0	0	0	0	0	0	0
GALL BLADDER	Number examined:	5	5	5	5	5	5	5	5	5	5
EDEMA, MUCOSA, ACUTE		0	0	0	0	0	0	0	1	0	0

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010F  
All Diagnoses  
Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 2

SUB-ACUTE/

Notes: Animals = all scheduled sacrificed animal  
Controls from group(s):10

-- Animals Affected --

Tissues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctts	1	2	3	4	5	6	7	8	9
GUT-LYMPHOID TIS	Number examined:	5	5	5	5	5	5	4	4	5	5
HEART	Number examined:	5	5	5	5	5	5	4	5	5	5
INFLAMMATION, INTERSTITIAL, SUBACUTE		1	0	0	2	0	0	0	2	1	1
INFLAMMATION, INTERSTITIAL, ACUTE, WITH BACTERIA		1	0	1	0	0	0	0	0	0	0
ILEUM	Number examined:	5	5	5	5	5	5	4	5	5	5
JEJUNUM	Number examined:	5	5	5	5	5	5	4	5	5	5
KIDNEY	Number examined:	5	5	5	5	5	5	4	5	5	5
INTERSTITIAL INFLAMMATION, SUBACUTE		1	1	3	1	1	1	0	1	1	2
VACUOLATED TUBULAR EPITHELIUM		0	0	1	2	0	1	0	1	3	2
INFLAMMATION, ACUTE, RENAL PELVIS		0	0	0	0	1	0	0	0	0	0
NECROSIS, TUBULAR, ACUTE		0	0	0	0	0	0	0	0	1	1
ILATED TUBULES		0	0	0	0	0	0	0	0	1	1
LAL. GLD.	Number examined:	5	5	5	5	5	5	4	5	5	5
HEMORRHAGE, ACUTE		0	0	0	0	0	0	0	0	1	0
LIVER	Number examined:	5	5	5	5	5	5	4	5	5	5
INFLAMMATION, SUBACUTE, PERIportal		3	3	4	2	3	3	1	3	4	3
CONGESTION, VASCULAR, ACUTE		0	0	0	0	1	0	0	1	0	0
INFLAMMATION, PARENCHYMA, PYOGRAULOMATOUS		1	0	0	0	0	0	1	1	0	0
HEMORRHAGE, ACUTE		0	0	0	0	0	0	0	0	0	0
REDUPLICATION/HYPERPLASIA, BILE DUCTULES		0	0	0	0	0	0	0	0	0	1
LUNGS	Number examined:	5	5	5	5	5	5	4	5	5	5
INFLAMMATION, INTERSTITIAL, SUBACUTE		3	2	2	2	2	3	2	4	3	3
INFLAMMATION, PERIVASCULAR, ACUTE		0	1	0	0	0	0	0	0	1	0
ALVEOLAR HISTIOCYTOSIS		0	0	0	1	0	0	0	0	0	0
VASCULAR CONGESTION, ACUTE		0	0	0	0	0	1	0	0	0	2





## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010f  
All Diagnoses  
Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 4

Notes: Animals = all scheduled sacrificed animal Controls from group(s):10		Animal sex: Dosage group: No. in group:		-- Animals affected -- -- females --		SUB-ACUTE/ SUB-ACUTE/	
Tissues with diagnoses		Ctts		1 2 3 4 5 6 7 8 9			
SKIN		Number examined:		5 5 5 5 5 5 5 5 5			
EDEMA, SUBCUTIS		0 2 1 1 0 1 0 0 0		0 0 0 0 0 0 0 0 0			
INFLAMMATION, CHRONIC-ACTIVE		0 1 0 1 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
NECROSIS, AND ACUTE INFLAMMATION, EPIDERMIS		0 1 0 1 1 1 0 0 0		0 0 0 0 0 0 0 0 0			
VASCULITIS, SUBACUTE, DERMIS		0 0 1 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
HEMORRHAGE, SUBCUTIS		0 0 0 1 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
SKELETAL MUSCLE		Number examined:		5 5 5 5 5 5 5 5 5			
INFLAMMATION, MYOFIBER, SUBACUTE		0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
INFLAMMATION, INTERSTITIUM/ADVENTITIA, CHRONIC		0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
SCIATIC NERVE		Number examined:		5 5 5 5 5 5 5 5 5			
INFLAMMATION, PERINEURAL FAT, ACUTE		0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
SPLEEN		Number examined:		5 5 5 5 5 5 5 5 5			
STOMACH		Number examined:		5 5 5 5 5 5 5 5 5			
THYROID GLAND		Number examined:		5 5 5 5 5 5 5 5 5			
CYST, THYRO-GLOSSAL DUCT REMNANT		3 3 4 1 3 2 0 4 2		2 2 2 2 2 2 2 2 2			
CYST, FOLLICULAR		1 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
THYMUS		Number examined:		5 5 5 5 5 5 5 5 5			
TRACHEA		Number examined:		5 5 5 5 5 5 5 5 5			
CONGESTION, VASCULAR, ACUTE		0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0			
URINARY BLADDER		Number examined:		5 5 5 5 5 5 5 5 5			
INFLAMMATION, INTERSTITIAL-SUBMUCOSAL, SUBACUTE		0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0			

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010f  
All Diagnoses  
Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
Page: 5

Tissues With Diagnoses	Animals Affected		SUB-ACUTE/
	Animals	Females	
Notes: Animals = all scheduled sacrificed animal Controls from group(s): 10			
Animal sex:			
Dosage group:			
No. in group:			
Number examined:			
UTERUS	5	5	5

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010K  
All Diagnoses  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 1

Notes: Animals = unscheduled dead for study days 1-37  
Controls from group(s): 10 Animal sex:

..Animals Affected..

Controls from group(s): 10	Dosage group:	Animal sex:
	No. in group:	
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0	1	2	3	4	5	6	7	8	9

ADRENAL GLANDS .....Number examined:  
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**BONE MARROW** ..... **Number examined:**

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BRAIN .....	Number examined:
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CECUN14 ..... Number examined:

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COLON .....Number examined:

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DIAPHRAGM ..... kumbr examined:  
DEGENERATION AND MINERALIZATION, CHRONIC

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**EPIDIDYMIUS** .....Number examined:

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**ESOPHAGUS** ..... **Number examined:** .....

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Incidence Summary of Microscopic Observations  
Study Number: 88010M  
All Diagnoses  
Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
Page: 3

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**PATHOLOGY TABLE 4 (cont.)**

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

PRINTED: 22-Sep-89  
Page: 4

Incidence Summary of Microscopic Observations  
Study Number: 88010M

All Diagnoses

Study Start Date: 25-Apr-89

SUB-ACUTE/

Notes: Animals = unscheduled dead for study days 1-37		-- Animals Affected --			
Controls from group(s): 10		-- Males --			
		Cats			
Tissues With Diagnoses		1	2	3	4
		0	0	1	0
PROSTATE		0	0	1	0
Number examined:		0	0	0	0
PARATHYROID		0	0	1	0
Number examined:		0	0	0	0
SPINAL CORD		0	0	1	0
Number examined:		0	0	0	0
SALIVARY GLAND		0	0	1	0
INFLAMMATION, INTERSTITIAL, CHRONIC		0	0	0	0
Number examined:		0	0	0	0
SKIN		0	0	1	0
Number examined:		0	0	0	0
GRANULATION AND SUTURE MATERIAL		0	0	0	0
INFLAMMATION, CHRONIC-ACTIVE		0	0	0	0
NECROSIS AND ACUTE INFLAMMATION, EPIDERMIS		0	0	0	0
INFLAMMATION, CHRONIC ACTIVE, AND NECROSIS, SUBCUTIS		0	0	0	0
GRANULATION TISSUE, WITH CYST FORMATION, SUBCUTIS		0	0	0	0
EDEMA, SUBCUTIS, ACUTE		0	0	0	0
Number examined:		0	0	0	0
SKELETAL MUSCLE		0	0	1	0
INFLAMMATION, AND SCARRING, CHRONIC		0	0	0	0
Number examined:		0	0	0	0
SCIATIC NERVE		0	0	1	0
Number examined:		0	0	0	0
SPLEEN		0	0	1	0
Number examined:		0	0	0	0
STOMACH		0	0	1	0
ULCERATION AND INFLAMMATION, MUCOSA, ACUTE		0	0	0	0
Number examined:		0	0	0	0
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Number examined:		0	0	0	0

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
 Study Number: 88010H  
 All Diagnoses  
 Study Start Date: 25-Apr-89

PRINTED: 22-Sep-89  
 Page: 5

Notes: Animals = unscheduled dead for study days		1-37	Animals Affected --													
Controls from group(s):10			Animal sex:		Males											
			Dosage group:		1	2	3	4	5	6	7	8	9			
Tissues With Diagnoses			No. in group:		0	0	0	1	0	0	0	0	2	0		
			Number examined:		0	0	0	1	0	0	0	0	2	0		
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CYST, THYRO-GLOSSAL DUCT REMNANT					0	0 <td>0<td>1<td>0<td>0<td>0<td>0<td>1<td>0</td></td></td></td></td></td></td></td>	0 <td>1<td>0<td>0<td>0<td>0<td>1<td>0</td></td></td></td></td></td></td>	1 <td>0<td>0<td>0<td>0<td>1<td>0</td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>1<td>0</td></td></td></td></td>	0 <td>0<td>0<td>1<td>0</td></td></td></td>	0 <td>0<td>1<td>0</td></td></td>	0 <td>1<td>0</td></td>	1 <td>0</td>	0		
THYRUS			Number examined:		0	0 <td>0<td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td></td>	0 <td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td>	1 <td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>2<td>0</td></td></td></td></td>	0 <td>0<td>0<td>2<td>0</td></td></td></td>	0 <td>0<td>2<td>0</td></td></td>	0 <td>2<td>0</td></td>	2 <td>0</td>	0		
TRACHEA			Number examined:		0	0 <td>0<td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td></td>	0 <td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td>	1 <td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>2<td>0</td></td></td></td></td>	0 <td>0<td>0<td>2<td>0</td></td></td></td>	0 <td>0<td>2<td>0</td></td></td>	0 <td>2<td>0</td></td>	2 <td>0</td>	0		
URINARY BLADDER			Number examined:		0	0 <td>0<td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td></td>	0 <td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td>	1 <td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>2<td>0</td></td></td></td></td>	0 <td>0<td>0<td>2<td>0</td></td></td></td>	0 <td>0<td>2<td>0</td></td></td>	0 <td>2<td>0</td></td>	2 <td>0</td>	0		
INFLAMMATION, INTERSTITIAL, SUBACUTE			Number examined:		0	0 <td>0<td>0<td>0<td>0<td>0<td>0<td>0<td>0</td></td></td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>0<td>0<td>0<td>0</td></td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>0<td>0<td>0</td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>0<td>0</td></td></td></td></td>	0 <td>0<td>0<td>0<td>0</td></td></td></td>	0 <td>0<td>0<td>0</td></td></td>	0 <td>0<td>0</td></td>	0 <td>0</td>	0		
URETER			Number examined:		0	0 <td>0<td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td></td>	0 <td>1<td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td></td>	1 <td>0<td>0<td>0<td>0<td>2<td>0</td></td></td></td></td></td>	0 <td>0<td>0<td>0<td>2<td>0</td></td></td></td></td>	0 <td>0<td>0<td>2<td>0</td></td></td></td>	0 <td>0<td>2<td>0</td></td></td>	0 <td>2<td>0</td></td>	2 <td>0</td>	0		



## Appendix I (cont.): PATHOLOGY REPORT

LEITERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations

Study Number: 88010f

All Diagnoses

Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
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SUB-ACUTE/

Notes: Animals = unscheduled dead for study days 1-23  
Controls from group(s):10

-- Animals Affected --

-- females --

Tissues With Diagnoses

Ctts

1 2 3 4 5 6 7 8 9

Dosage group:

No. in group:

ADRENAL GLANDS

Number examined:

0 0 0 0 0 0 1 0 0 0

INFLAMMATION, INTERSTITIAL, SUBACUTE

AORTA

Number examined:

0 0 0 0 0 0 1 0 0 0

BRAIN

Number examined:

0 0 0 0 0 0 1 0 0 0

INFLAMMATION, PERIVASCULAR, SUBACUTE

INFLAMMATION, GRANULOMATOUS

INFLAMMATION, LEPTOMENINGES, SUBACUTE

CECUM

Number examined:

0 0 0 0 0 0 1 0 0 0

INFLAMMATION, MUCOSAL, SUBACUTE

COLON

Number examined:

0 0 0 0 0 0 1 0 0 0

DIAPHRAGM

Number examined:

0 0 0 0 0 0 1 0 0 0

INFLAMMATION, INTERSTITIAL, SUBACUTE

DUODENUM

Number examined:

0 0 0 0 0 0 1 0 0 0

ESOPHAGUS

Number examined:

0 0 0 0 0 0 1 0 0 0

EYES & OPTIC N.

Number examined:

0 0 0 0 0 0 1 0 0 0

INFLAMMATION, SUBACUTE, CHOROID

GALL BLADDER

Number examined:

0 0 0 0 0 0 1 0 0 0

EDEMA, MUCOSA, ACUTE

PATHOLOGY TABLE 4 (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 98010f  
All Diagnoses  
Study Start Date: 30-May-89

PRINTED: 22-Sep-89  
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Notes: Animals = unscheduled dead for study days 1- 23										-- Animals Affected --									
Controls from group(s):10										-- females --									
Animal sex:																			
Dosage group:																			
No. in group:																			
T i s s u e s   W i t h   D i a g n o s e s										C t l s									
										1   2   3   4   5   6   7   8   9									
										0   0   0   0   0   0   1   0   0									
GUT-LYMPHOID TIS										0   0   0   0   0   0   1   0   0									
HEART										0   0   0   0   0   0   1   0   0									
INFLAMMATION, INTERSTITIAL, SUBACUTE										0   0   0   0   0   0   0   0   0									
INFLAMMATION, INTERSTITIAL, ACUTE, WITH BACTERIA										0   0   0   0   0   0   0   0   0									
ILEUM										0   0   0   0   0   0   1   0   0									
JEJUNUM										0   0   0   0   0   0   1   0   0									
KIDNEY										0   0   0   0   0   0   1   0   0									
INTERSTITIAL INFLAMMATION, SUBACUTE										0   0   0   0   0   0   0   0   0									
VACUOLATED TUBULAR EPITHELIUM										0   0   0   0   0   0   0   0   0									
INFLAMMATION, ACUTE, RENAL PELVIS										0   0   0   0   0   0   0   0   0									
NECROSIS, TUBULAR, ACUTE										0   0   0   0   0   0   0   0   0									
DILATED TUBULES										0   0   0   0   0   0   0   0   0									
LAC. GLD.										0   0   0   0   0   0   1   0   0									
HEMORRHAGE, ACUTE										0   0   0   0   0   0   0   0   0									
LIVER										0   0   0   0   0   0   1   0   0									
INFLAMMATION, SUBACUTE, PERIportal										0   0   0   0   0   0   1   0   0									
CONGESTION, VASCULAR, ACUTE										0   0   0   0   0   0   0   0   0									
INFLAMMATION, PARENCHYMA, PYOGRANULOMATOUS										0   0   0   0   0   0   1   0   0									
HEMORRHAGE, ACUTE										0   0   0   0   0   0   0   0   0									
REDUPLICATION/HYPERPLASIA, BILE DUCTULES										0   0   0   0   0   0   0   0   0									
LUNGS										0   0   0   0   0   0   1   0   0									
INFLAMMATION, INTERSTITIAL, SUBACUTE										0   0   0   0   0   0   1   0   0									
INFLAMMATION, PERIVASCULAR, ACUTE										0   0   0   0   0   0   0   0   0									
ALVEOLAR HISTIOCYTOSIS										0   0   0   0   0   0   0   0   0									
VASCULAR CONGESTION, ACUTE										0   0   0   0   0   0   0   0   0									

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

PRINTED: 22-Sep-89  
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Incidence Summary of Microscopic Observations  
Study Number: 88010f  
All Diagnoses

Study Start Date: 30-May-89

SUB-ACUTE/

Tissues With Diagnoses	1-23		Animals Affected									
	Notes: Animals = unscheduled dead for study days	Animal sex:	-- Females --									
Controls from group(s):10		Dosage group:	0	1	2	3	4	5	6	7	8	9
		No. in group:	0	0	0	0	0	0	0	1	0	0
LUNGS		Number examined:	0	0	0	0	0	0	0	1	0	0
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS			0	0	0	0	0	0	0	0	0	0
INFLAMMATION, INTERSTITIAL, ACUTE			0	0	0	0	0	0	0	0	0	0
HEMORRHAGE, INTRA-ALVEOLAR, ACUTE			0	0	0	0	0	0	0	0	0	0
MAMMARY GLANDS		Number examined:	0	0	0	0	0	0	0	1	0	0
NECROSIS, ACUTE			0	0	0	0	0	0	0	0	0	0
MESSE Lymph Node		Number examined:	0	0	0	0	0	0	0	1	0	0
MISCELLANEOUS		Number examined:	0	0	0	0	0	0	0	1	0	0
PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA			0	0	0	0	0	0	0	1	0	0
THROMBOSIS, CHRONIC, VENA CAVA			0	0	0	0	0	0	0	1	0	0
INFLAMMATION, CHRONIC-ACTIVE, LIP			0	0	0	0	0	0	0	0	0	0
OVARIES		Number examined:	0	0	0	0	0	0	0	1	0	0
PARA-OVARIAN CYST			0	0	0	0	0	0	0	0	0	0
PANCREAS		Number examined:	0	0	0	0	0	0	0	1	0	0
PITUITARY GLAND		Number examined:	0	0	0	0	0	0	0	1	0	0
PARATHYROID		Number examined:	0	0	0	0	0	0	0	1	0	0
SPINAL CORD		Number examined:	0	0	0	0	0	0	0	1	0	0
INFLAMMATION, SUBACUTE			0	0	0	0	0	0	0	0	0	0
SALIVARY GLAND		Number examined:	0	0	0	0	0	0	0	1	0	0
NECROSIS AND CHRONIC-ACTIVE CELLULITIS			0	0	0	0	0	0	0	0	0	0
HEMORRHAGE AND EDEMA, ACUTE			0	0	0	0	0	0	0	0	0	0
INFLAMMATION, INTERSTITIAL, CHRONIC			0	0	0	0	0	0	0	0	0	0
INFLAMMATION, INTERSTITIAL, SUBACUTE			0	0	0	0	0	0	0	0	0	0

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010F  
All Diagnoses  
Study Start Date: 30-May-89

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Presidio of San Francisco, CA 94129										All Diagnoses									
Rabbit/New Zealand White										Study Start Date: 30-May-89									
Notes: Animals = unscheduled dead for study days										1-23									
Controls from group(s):10										Animal sex:									
Tissues With Diagnoses										Dosage group:									
										No. in group:									
										Ctts									
										1 2 3 4 5 6 7 8 9									
										0 0 0 0 0 0 1 0 0									
										-- Animals Affected --									
										-- Females --									
SKIN										Number examined:									
EDEMA, SUBCUTIS										0 0 0 0 0 1 0 0 0									
INFLAMMATION, CHRONIC-ACTIVE										0 0 0 0 0 0 0 0 0									
NECROSIS, AND ACUTE INFLAMMATION, EPIDERMIS										0 0 0 0 0 0 0 0 0									
VASCULITIS, SUBACUTE, DERMIS										0 0 0 0 0 0 0 0 0									
HEMORRHAGE, SUBCUTIS										0 0 0 0 0 0 0 0 0									
SKELETAL MUSCLE										Number examined:									
INFLAMMATION, MYOFIBER, SUBACUTE										0 0 0 0 0 1 0 0 0									
INFLAMMATION, INTERSTITIUM/AOVENTITIA, CHRONIC										0 0 0 0 0 0 0 0 0									
SCIATIC NERVE										Number examined:									
INFLAMMATION, PERINEURAL FAT, ACUTE										0 0 0 0 0 0 0 0 0									
SPLEEN										Number examined:									
										0 0 0 0 0 1 0 0 0									
STOMACH										Number examined:									
										0 0 0 0 0 1 0 0 0									
THYROID GLAND										Number examined:									
CYST, THYRO-GLOSSAL DUCT REMNANT										0 0 0 0 0 0 0 0 0									
CYST, FOLLICULAR										0 0 0 0 0 0 0 0 0									
THYMS										Number examined:									
										0 0 0 0 0 0 1 0 0									
TRACHEA										Number examined:									
CONGESTION, VASCULAR, ACUTE										0 0 0 0 0 1 0 0 0									
URINARY BLADDER										Number examined:									
INFLAMMATION, INTERSTITIAL-SUBMUCOSAL, SUBACUTE										0 0 0 0 0 1 0 0 0									
										SUB-ACUTE									

## Appendix I (cont.): PATHOLOGY REPORT

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LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Incidence Summary of Microscopic Observations  
Study Number: 88010F

All Diagnoses

Study Start Date: 30-May-89

SUB-ACUTE/

Notes: Animals = unscheduled dead for study days 1- 23		-- Animals		Affected						
Controls from group(s):10		-- females								
		1	2	3	4	5	6	7	8	9
T i s s u e s	W i t h D i a g n o s e s									
U R E T E R		0	0	0	0	0	0	1	0	0
U T E R U S		0	0	0	0	0	0	1	0	0
	Number examined:	0	0	0	0	0	0	1	0	0
	Number examined:	0	0	0	0	0	0	1	0	0

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

PRINTED: 27-Oct-89  
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Individual Animal Data Dump Table  
Study Number: 88010H

Animal: 89F00126 Sex: Male Study Start Date: 25-Apr-89 SUB-ACUTE/  
Day of death: 15 Status: Final sacrifice Group: 1 Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.79

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	138.5	3.65	1462.8	
09-May-89	15/3	KIDNEY	17.5	0.46	184.7	
09-May-89	15/3	HEART	7.9	0.21	83.9	Low
09-May-89	15/3	BRAIN	9.5	0.25	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	1.03	0.027	10.85	High
09-May-89	15/3	TESTIS	5.34	0.141	56.42	Low
09-May-89	15/3	SPLEEN	1.2	0.03	12.4	

<< Gross Observations >>  
Gross Free-text Comments

DARK RED, AT CATHETER TIP

<< Necropsy Memos >>

Tissue Finding, severity

ADRENAL GLANDS ENLARGED, UNILATERALLY, Mild

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

Tissue Required protocol tissue is missing.

PARATHYROID

Required protocol tissue is missing.

PROSTATE

Required protocol tissue is missing.

URINARY BLADDER

Required protocol tissue is missing.

SKIN

Required protocol tissue is missing.

MAMMARY GLAND

Required protocol tissue is missing.

PATHOLOGY ANNEX

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00140  
Day of death: 15  
Sex: Male  
Status: final sacrifice

Study Start Date: 25-Apr-89  
SUB-ACUTE/

Group: 1  
Terminal body weight (kms): 8.0 ML/KG/day  
Dose level: 3.07

Date	Day/week of Study	Organ Name	<< Organ		>>		Organ Status
			Absolute Weight (gms)	Body Weight	Relative % of Brain Weight		
09-May-89	15/3	LIVER	68.7	2.24	763.9	Low	
09-May-89	15/3	KIDNEY	16.9	0.55	188.2	Low	
09-May-89	15/3	HEART	8.2	0.27	91.0	Low	
09-May-89	15/3	BRAIN	9.0	0.29	100.0	Low	
09-May-89	15/3	ADRENAL GLANDS	0.58	0.019	6.44	Low	
09-May-89	15/3	TESTIS	6.09	0.198	67.81		
09-May-89	15/3	SPLEEN	1.0	0.03	10.8		

Tissue Finding, severity << Gross Observations >>  
WHOLE BODY NO LESIONS RECOGNIZED Gross Free-Text Comments

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.  
MISCELLANEOUS THROMBOSIS, CHRONIC, VENA CAVA, Mild, focal.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

PRINTED: 27-Oct-89  
Page: 3

Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00155

Sex: Male

Status: Final sacrifice

Group: 1

Study Start Date: 25-Apr-89

Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.62

SUB-ACUTE/

## &lt;&lt; Organ Weights &gt;&gt;

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
16-May-89	22/4	LIVER	114.9	3.17	1021.0	Low
16-May-89	22/4	KIDNEY	12.4	0.34	110.1	
16-May-89	22/4	HEART	12.4	0.34	110.1	
16-May-89	22/4	BRAIN	11.3	0.31	100.0	Low
16-May-89	22/4	ADRENAL GLANDS	0.76	0.021	6.72	
16-May-89	22/4	TESTIS	5.20	0.143	46.15	Low
16-May-89	22/4	SPLEEN	3.4	0.09	29.8	

## &lt;&lt; Gross Observations &gt;&gt;

Gross free-text Comments

Tissue finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue Necropsy memos  
No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue Histopathologic diagnoses / Special histological comments  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MESEN.LYMPH NODE Required protocol tissue is missing.

MAHMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Animal: 89F00166  
Day of death: 15  
Sex: Male  
Status: Final sacrifice

Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89

SUB-ACUTE/

Group: 1  
Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.60

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
17-May-89	23/4	LIVER	145.2	4.03	1612.1	
17-May-89	23/4	KIDNEY	24.1	0.67	267.8	High
17-May-89	23/4	HEART	10.6	0.29	117.1	
17-May-89	23/4	BRAIN	9.0	0.25	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.77	0.021	8.55	
17-May-89	23/4	TESTIS	5.86	0.163	65.05	Low
17-May-89	23/4	SPLEEN	2.8	0.08	30.8	

Tissue Finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments

SALIVARY GLAND INFLAMMATION, INTERSTITIAL, CHRONIC, Slight, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal

KIDNEY INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal

ADRENAL GLANDS NECROSIS, COAGULATIVE, CORTICAL, Marked, Focal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

PRINTED: 27-Oct-89  
Page: 5

Animal: 89F00130  
Sex: Male  
Status: Final sacrifice  
Day of death: 15

Study Start Date: 25-Apr-89  
Group: 1  
Terminal body weight (kms): 3.75  
Dose level: 0.0 ML/KG/day  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	<< Organ Weights >>			>> Relative % of		Organ Status
			Absolute Weight (gms)	Relative % of Body Weight	Brain Weight	Brain Weight	Status	
17-May-89	23/4	LIVER	138.1	3.69	1390.6		High	
17-May-89	23/4	KIDNEY	24.6	0.66	247.4			
17-May-89	23/4	HEART	11.4	0.30	114.3		Low	
17-May-89	23/4	BRAIN	9.9	0.27	100.0			
17-May-89	23/4	ADRENAL GLANDS	0.68	0.018	6.89		Low	
17-May-89	23/4	TESTIS	7.54	0.201	75.91			
17-May-89	23/4	SPLEEN	5.7	0.15	57.1			

<< Gross Observations >>  
Gross Free-Text Comments

LUNGS  
DISSEMINATED FOCI, Trace  
INFARCTION(S)/SCAR(S), Mild  
FIRM ROUND RED AND WHITE, 2 X 2 MM, MULTIFOCAL  
RIGHT AURICLE FIRM, WHITE AND LARGE, CATHETER TIP  
SEROSA

URINARY BLADDER  
EDEMA, Mild  
ENLARGED(SPLENOMEGALY), Mild  
1/2 X 1/2 X 1/2 CM, WHITE, LEFT KIDNEY  
2 X 2 MM RIGHT KIDNEY

SPLEEN  
INFARCT, Moderate  
INFARCT, Trace  
Necropsy memos  
Necropsy memos recorded on animal  
<< Necropsy Memos >>

KIDNEY  
INFLAMMATION, CHRONIC-ACTIVE, Moderate, Multifocal.  
INFLAMMATION, INTERSTITIAL, SUBACUTE, Moderate, Diffuse.  
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Moderate, Multifocal.  
INFLAMMATION, CHRONIC-ACTIVE, Moderate, Multifocal.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00130 Sex: Male  
Day of death: 15 Status: Final sacrifice

Group: 1

Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.75

<< P a t h o l o g y O b s e r v a t i o n s >>

Tissue Histopathologic diagnoses / Special histological comments

MAXIMARY GLAND Required protocol tissue is missing.

MISCELLANEOUS THROMBOSIS, CHRONIC, VENA CAVA, Mild, focal.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010H

PRINTED: 27-Oct-89  
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Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00118 Sex: Male Status: Final sacrifice Group: 2 Terminal body weight (kms): 12.0 ML/KG/day  
Day of death: 15

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative % of		Organ Status
			Absolute (gms)	Body Weight	Brain Weight	Weight	
09-May-89	15/3	LIVER	122.7	3.41	1327.8		
09-May-89	15/3	KIDNEY	18.7	0.52	202.6		
09-May-89	15/3	HEART	9.6	0.27	104.0		Low
09-May-89	15/3	BRAIN	9.2	0.26	100.0		Low
09-May-89	15/3	ADRENAL GLANDS	0.55	0.015	5.94		
09-May-89	15/3	TESTIS	5.18	0.144	56.03		Low
09-May-89	15/3	SPLEEN	1.6	0.05	17.8		

Tissue Finding, severity << Gross Observations >>  
WHOLE BODY NO LESIONS RECOGNIZED Gross Free-text Comments

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
PARATHYROID Required protocol tissue is missing.  
HESN.LYMPH NODE Required protocol tissue is missing.  
SKIN Required protocol tissue is missing.  
HAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
 Study Number: 88010H

SUB-ACUTE/

Animal: 89F00141

Sex: Male

Status: Final sacrifice

Group: 2

Study Start Date: 25-Apr-89

Dose level: 12.0 ML/KG/day  
 Terminal body weight (kms): 3.03

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	123.1	4.07	1334.2	
09-May-89	15/3	KIDNEY	17.0	0.56	184.5	High
09-May-89	15/3	HEART	9.5	0.31	103.1	
09-May-89	15/3	BRAIN	9.2	0.30	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.64	0.021	6.96	
09-May-89	15/3	TESTIS	5.13	0.169	55.54	Low
09-May-89	15/3	SPLEEN	2.5	0.08	26.8	

<< Gross Observations >>  
 Gross Free-text Comments

Tissue finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

PITUITARY GLAND Required protocol tissue is missing.

TRACHEA Required protocol tissue is missing.

PARATHYROID Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

MAHMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Animal: 89F00132

Sex: Male

Status: Final sacrifice

Study Start Date: 25-Apr-89

Group: 2

Dose level: 12.0 ML/KG/day  
Terminal body weight (kms): 3.62

SUB-ACUTE/

## &lt;&lt; Organ Weights &gt;&gt;

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	93.1	2.57	928.1	Low
09-May-89	15/3	KIDNEY	20.0	0.55	195.4	
09-May-89	15/3	HEART	10.1	0.28	101.0	Low
09-May-89	15/3	BRAIN	10.0	0.28	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.32	0.009	3.19	
09-May-89	15/3	TESTIS	7.66	0.212	76.37	Low
09-May-89	15/3	SPLEEN	1.4	0.04	14.1	

## &lt;&lt; Gross Observations &gt;&gt;

Tissue Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.  
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Mild, Focal.  
HEMORRHAGE, INTRA-ALVEOLAR, ACUTE, Marked, Multifocal.

MESEN.LYMPH NODE Required protocol tissue is missing.

DIAPHRAGM Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
 Study Number: 88010M

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00176 Sex: Male  
 Day of death: 15 Status: Final sacrifice  
 Group: 2 Dose level: 12.0 ML/KG/day  
 Terminal body weight (kms): 3.69

Date	Day/week of Study	Organ Name	Organ Weight (gms)		Relative % of Body Weight		Relative % of Brain Weight	Organ Status
			Absolute	Relative	Absolute	Relative		
17-May-89	23/4	LIVER	148.2	4.01	1451.0			
17-May-89	23/4	KIDNEY	19.2	0.52	187.9		Low	
17-May-89	23/4	HEART	9.9	0.27	97.0		Low	
17-May-89	23/4	BRAIN	10.2	0.28	100.0			
17-May-89	23/4	ADRENAL GLANDS	0.50	0.013	4.85		Low	
17-May-89	23/4	TESTIS	4.95	0.134	48.42			
17-May-89	23/4	SPLEEN	3.3	0.09	32.5			

Tissue finding, severity  
 WHOLE BODY NO LESIONS RECOGNIZED

Tissue Necropsy memos  
 No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments  
 LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010K

Animal: 89F00257 Sex: Male  
Status: Final sacrifice  
Study Start Date: 25-Apr-89  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
31-May-89	37/6	LIVER	120.8	3.78	1344.1	
31-May-89	37/6	KIDNEY	17.0	0.53	188.9	
31-May-89	37/6	HEART	7.8	0.24	86.5	Low
31-May-89	37/6	BRAIN	9.0	0.28	100.0	Low
31-May-89	37/6	ADRENAL GLANDS	0.55	0.017	6.12	
31-May-89	37/6	TESTIS	3.90	0.122	43.39	Low
31-May-89	37/6	SPLEEN	3.0	0.09	33.1	

Terminal body weight (kgs): 3.20  
Dose level: 12.0 ML/KG/day

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity  
URINARY BLADDER EDEMA, Moderate  
LIVER LIPIDOSIS, Trace  
LUNGS PETECHIAE, Mild  
VENA CAVA THROMBUS, Moderate

APEX, SEROSA

LEFT LOBE

MULTIFOCAL

AT RENAL VEIN

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments  
SALIVARY GLAND INFLAMMATION, INTERSTITIAL, CHRONIC, Mild, Multifocal.

PARATHYROID Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

KIDNEY INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

PATHOLOGY ANNEX (cont.)



# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, C/ 94129  
 RABBIT/NEW ZEALAND WHITE

Animal: 89F00257      Sex: Male  
 Day of death: 15      Status: Final sacrifice

Individual Animal Data Dump Table  
 Study Number: 080104

Study Start Date: 25-Apr-89      Group: 2      SUB-ACUTE/

Terminal body weight (kms): 12.0 ML/KG/day  
 3.20

<< Pathology Observations >>

Tissue      Histopathologic diagnoses / Special histological comments

URINARY BLADDER      INFLAMMATION, INTERSTITIAL, SUBACUTE, Moderate.

MAMMARY GLAND      Required protocol tissue is missing.

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## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESTIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010H

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Animal: 89F00129 Sex: Male Study Start Date: 25-Apr-89 SUB-ACUTE/

Day of death: 15 Status: Final sacrifice Group: 3 Terminal body weight (kgs): 3.22 Dose level: 16.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	116.4	3.61	1205.5	
09-May-89	15/3	KIDNEY	19.3	0.60	200.0	High
09-May-89	15/3	HEART	8.2	0.26	85.4	Low
09-May-89	15/3	BRAIN	9.7	0.30	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.49	0.015	5.04	
09-May-89	15/3	TESTIS	5.14	0.160	53.26	Low
09-May-89	15/3	SPLEEN	1.9	0.06	19.7	

## &lt;&lt; Gross Observations &gt;&gt;

Gross Free-text Comments

LEFT FLANK AT CATETER, 30CC WITH PUS

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue Histopathologic diagnoses / Special histological comments

PARATHYROID Required protocol tissue is missing.

ADRENAL GLANDS ARTERIAL THROMBUS AND NECROSIS, Mild, Focal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00154  
Sex: Male  
Status: FOUND DEAD  
Day of death: 12

Study Start Date: 25-Apr-89  
SUB-ACUTE/

Group: 3  
Terminal body weight (kms): 16.0 ML/KG/day  
Dose level: -----

Organ Weights >>  
Absolute Organ Weight (gms) Relative % of Body Weight  
Organ Status

No organ weight data for animal

Gross Observations >>  
Gross free-text Comments

Finding, severity  
No gross observations recorded on animal.

Memos >>  
Necropsy memos

WHOLE BODY  
DIFFUSE POST-MORTEM DEGENERATION

Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

THYROID GLAND  
CYST, THYRO-GLOSSAL DUCT REMNANT, Moderate, Focal.

AORTA  
DEGENERATION AND MINERALIZATION, MEDIA, Marked, Focal.

LUNGS  
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Moderate, Focal.  
HEMORRHAGE, INTRA-ALVEOLAR, ACUTE, Mild, Multifocal.

LIVER  
NECROSIS, COAGULATIVE, PARENCHYMAL \, Mild, Multifocal.

KIDNEY  
INFLAMMATION, INTERSTITIAL, SUBACUTE, Moderate, Multifocal.  
BACTERIAL EMBOLI IN URINIFEROUS SPACE, Present.

ADRENAL GLANDS  
BACTERIAL EMBOLI, Present.

MAMMARY GLAND  
Required protocol tissue is missing.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

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Animal: 89F00147 Sex: Male  
Status: Final sacrifice  
Study Start Date: 25-Apr-89  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Terminal body weight (kms)	Dose level: 16.0 ML/KG/day	Organ Status
09-May-89	15/3	LIVER	149.5	4.83	1520.1		High
09-May-89	15/3	KIDNEY	21.4	0.69	217.2		High
09-May-89	15/3	HEART	8.9	0.29	90.0		Low
09-May-89	15/3	BRAIN	9.8	0.32	100.0		Low
09-May-89	15/3	ADRENAL GLANDS	0.54	0.018	5.52		Low
09-May-89	15/3	TESTIS	5.58	0.180	56.77		Low
09-May-89	15/3	SPLEEN	4.6	0.15	46.3		

Tissue Finding, severity  
LUNGS HEMORRHAGE(S), Mild

SKELETAL MUSCLE NECROSIS, Trace

SEMITEND-HEM RIGHT REAR, 1 X 1/4 CM

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments  
SPINAL CORD Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

MESEN.LYMPH NODE Required protocol tissue is missing.

SKELETAL MUSCLE INFLAMMATION, AND SCARRING, CHRONIC, Moderate.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00172 Sex: Male Status: Final sacrifice Group: 3 Terminal body weight (kms): 16.0 ML/KG/day  
Day of death: 15

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
17-May-89	23/4	LIVER	97.5	2.27	865.5	Low
17-May-89	23/4	KIDNEY	19.2	0.50	189.6	
17-May-89	23/4	HEART	10.8	0.28	107.3	Low
17-May-89	23/4	BRAIN	10.1	0.26	100.0	
17-May-89	23/4	ADRENAL GLANDS	0.49	0.013	4.83	Low
17-May-89	23/4	TESTIS	6.20	0.161	61.32	
17-May-89	23/4	SPLEEN	4.7	0.12	46.5	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue	Finding, severity
LUNGS	PETECHIAE, Mild
SKELETAL MUSCLE	HEMORRHAGE(S), Moderate
KIDNEY	HEMORRHAGE(S), Marked
LIVER	LIPIDOSIS, Trace
VERTEBRAL BODY	FRACTURE

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

HISTIOCYTOSIS, ALVEOLAR, Moderate, Multifocal.  
HEMORRHAGE, INTRA-ALVEOLAR, ACUTE, Mild, Multifocal.

Required protocol tissue not examined.

Required protocol tissue not examined.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
 PRESIDIO OF SAN FRANCISCO, CA 94129  
 RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
 Study Number: 88010M

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00172 Sex: Male Group: 3 Dose level: 16.0 ML/KG/day  
 Day of death: 15 Status: Final sacrifice Terminal body weight (kms): 3.86

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments  
 KIDNEY Required protocol tissue not examined.

SKELETAL MUSCLE INFLAMMATION, AND SCARRING, CHRONIC, Mild.

DIAPHRAGM DEGENERATION AND MINERALIZATION, CHRONIC, Slight, Focal.

SKIN GRANULATION AND SUTURE MATERIAL, Present.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Animal: 89F00173  
Day of death: 15  
Sex: Male  
Status: Final sacrifice

Individual Animal Data Dump Table  
Study Number: 88010K

Study Start Date: 25-Apr-89

SUB-ACUTE/

Group: 3  
Terminal body weight (kms): 2.92  
Dose level: 16.0 ML/KG/day

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative % of Brain Weight	Organ Status
			Absolute (gms)	Relative % of Body Weight		
17-May-89	23/4	LIVER	138.5	4.74	1369.0	High
17-May-89	23/4	KIDNEY	19.1	0.65	188.4	High
17-May-89	23/4	HEART	10.4	0.36	103.3	Low
17-May-89	23/4	BRAIN	10.1	0.35	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.11	0.004	1.05	Low
17-May-89	23/4	TESTIS	5.41	0.185	53.50	Low
17-May-89	23/4	SPLEEN	2.8	0.10	28.0	Low

## &lt;&lt; Gross Observations &gt;&gt;

Tissue	Finding, severity	Gross free-text Comments
LIVER	FOCUS, Trace	DIAPHRAGMATIC LOBE, .1 Y 1.5CM, WHITE
ADRENAL GLANDS	GROWTH(S)/MASS(ES)	THREE ADRENALS PRESENT
KIDNEY	FOCI, Mild	ONE X ONE MM RED AND WHITE ON SURFACE, BILATERAL
LUNGS	FOCUS, Moderate	RED AND WHITE, 2 1/2 X 1/2 CM
LIP	ULCER, Mild	BILATERAL, COMMISSURES

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue	Necropsy memos
No necropsy memos recorded on animal	

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue	Histopathologic diagnoses / Special histological comments
LUNGS	INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal. INFARCT, VASCULAR, CHRONIC, Marked, focal.
LIVER	NECROSIS, COAGULATIVE, PARENCHYMAL \, slight, focal.
KIDNEY	Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

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Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00173

Sex: Male

Status: Final sacrifice

Group: 3

Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 2.92

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

THYHUS Required protocol tissue is missing.

SKIN NECROSIS AND ACUTE INFLAMMATION, EPIDERMIS, Marked, focal.

MAMMARY GLAND Required protocol tissue is missing.



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00127  
Day of death: 15  
Sex: Male  
Status: Final sacrifice

Study Start Date: 25-Apr-89  
Group: 4  
SUB-ACUTE/

Terminal body weight (kms): 8.0 ML/KG/day  
Dose level: 3.32

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	113.6	3.42	1187.9	
09-May-89	15/3	KIDNEY	18.0	0.54	188.2	
09-May-89	15/3	HEART	12.5	0.37	130.3	
09-May-89	15/3	BRAIN	9.6	0.29	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.34	0.010	3.51	
09-May-89	15/3	TESTIS	6.99	0.210	73.10	Low
09-May-89	15/3	SPLEEN	2.0	0.06	20.6	

<< Gross Observations >>  
Tissue Finding, severity  
Gross Free-Text Comments

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

LIVER INFLAMMATION, PERIportal, SUBACUTE, Slight, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00131 Sex: Male Status: Final sacrifice Group: 4 Dose level: 8.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.24

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	98.0	3.02	1025.1	Low
09-May-89	15/3	KIDNEY	17.3	0.53	181.6	
09-May-89	15/3	HEART	9.5	0.29	99.5	Low
09-May-89	15/3	BRAIN	9.6	0.29	100.0	
09-May-89	15/3	ADRENAL GLANDS	0.52	0.016	5.40	Low
09-May-89	15/3	TESTIS	4.32	0.133	45.17	
09-May-89	15/3	SPLEEN	1.6	0.05	16.7	

## &lt;&lt; Gross Observations &gt;&gt;

Gross Free-Text Comments

ULCER DORSAL NECK

1 CM POSTERIOR LUNG  
PETECHIAE DIFFUSE

## &lt;&lt; Necropsy Memos &gt;&gt;

Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Histopathologic diagnoses / Special histological comments

MESEN.LYMPH NODE Required protocol tissue is missing.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 880104

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00157 Sex: Male Status: Final sacrifice Group: 4 Dose level: 8.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.07

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	112.6	3.67	1102.0	
09-May-89	15/3	KIDNEY	19.8	0.64	193.6	High
09-May-89	15/3	HEART	8.7	0.28	85.1	
09-May-89	15/3	BRAIN	10.2	0.33	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.63	0.020	6.15	
09-May-89	15/3	TESTIS	5.17	0.169	50.62	Low
09-May-89	15/3	SPLEEN	1.3	0.04	12.7	

# << Gross Observations >>

Tissue Finding, severity Gross Free-Text Comments  
SKIN INFLAMMATION, Marked SUBCUTIS, LEFT THIGH

## << Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

## << Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments  
PITUITARY GLAND Required protocol tissue is missing.  
SKIN INFLAMMATION, CHRONIC-ACTIVE, Marked, Diffuse.  
MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00169      Sex: Male      Study Start Date: 25-Apr-89      SUB-ACUTE/  
Day of death: 15      Status: Final sacrifice      Group: 4      Terminal body weight (kms): 3.38      Dose level: 8.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
<< Organ Weights >>						
17-May-89	23/4	LIVER	119.3	3.53	1300.4	
17-May-89	23/4	KIDNEY	16.5	0.49	179.6	
17-May-89	23/4	HEART	8.1	0.24	88.8	Low
17-May-89	23/4	BRAIN	9.2	0.27	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.36	0.011	3.95	
17-May-89	23/4	TESTIS	5.78	0.171	62.99	Low
17-May-89	23/4	SPLEEN	4.5	0.13	49.3	

Tissue finding, severity << Gross Observations >>  
LIVER LIPIDOSIS, Trace Gross Free-Text Comments

GALL BLADDER ABSENT DIFFUSE

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

LIVER NECROSIS, COAGULATIVE, PARENCHYMAL \, Marked, Multifocal.

GALL BLADDER Required protocol tissue is missing.

KIDNEY INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

THYMUS Required protocol tissue is missing.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 09F00258 Sex: Male Status: final sacrifice Group: 4 Dose level: 8.0 ML/Kg/day  
Day of death: 15 Terminal body weight (kms): 2.27

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
31-May-89	37/6	LIVER	83.0	3.66	777.3	
31-May-89	37/6	KIDNEY	18.6	0.82	173.7	High
31-May-89	37/6	HEART	7.0	0.31	65.7	
31-May-89	37/6	BRAIN	10.7	0.47	100.0	
31-May-89	37/6	ADRENAL GLANDS	0.55	0.024	5.13	High
31-May-89	37/6	TESTIS	3.88	0.171	36.27	Low
31-May-89	37/6	SPLEEN	3.0	0.13	28.1	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue	Finding, severity	Gross Observations
STOMACH	TRICHOBEZOAR, Moderate	
KIDNEY	INFARCT, Marked	BILATERAL
LIVER	FOCUS, Trace	ON EDGE
VENA CAVA	THROMBUS, Marked	AT CATHETER TIP
GUT LYMPH TISSUE	ATROPHY, Moderate	SACculus ROTUNDUS, CECAL TONSIL

<< Necropsy Memos >>

Tissue	Necropsy memos
No necropsy memos recorded on animal	

<< Pathology Observations >>

Tissue	Histopathologic diagnoses / Special histological comments
BRAIN	INFLAMMATION, PERIVASCULAR, SUBACUTE, Slight, Multifocal.
LAC. GLD.	INFLAMMATION, INTERSTITIAL, SUBACUTE, Marked, Diffuse. NECROSIS, COAGULATIVE, PARENCHYMA, Marked, Multifocal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010H

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Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00258

Sex: Male

Status: Final sacrifice

Group: 4

Dose level: 8.0 ML/KG/day

2.27

Terminal body weight (kms):

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

HEART INFLAMMATION, INTERSTITIAL, SUB-ACUTE, Mild, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER INFLAMMATION, PERIportal, SUBACUTE, Mild, Multifocal.  
NECROSIS, COAGULATIVE, PARENCHYMAL \, Mild, Multifocal.

KIDNEY NECROSIS, TUBULAR, COAGULATIVE, Moderate.  
VASCULITIS, PERIRENAL FAT, SUBACUTE, Mild, Multifocal.

GUT LYMPH TISSUE NECROSIS AND LYMPHORRHEXIS, LYMPHOID TISSUE, Mild, Diffuse.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Summary Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00116 Sex: Male Status: Final sacrifice Group: S Dose level: 12.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.90

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
09-May-89	15/3	LIVER	123.1	3.16	1213.0	Low
09-May-89	15/3	KIDNEY	24.0	0.62	236.8	High
09-May-89	15/3	HEART	3.7	0.09	36.4	Low
09-May-89	15/3	BRAIN	10.1	0.26	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.53	0.014	5.26	Low
09-May-89	15/3	TESTIS	6.87	0.176	67.75	Low
09-May-89	15/3	SPLEEN	1.9	0.05	18.5	Low

<< Gross Observations >>  
Gross free-text comments

Tissue Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

PITUITARY GLAND Required protocol tissue is missing.

SALIVARY GLAND Required protocol tissue is missing.

LUNGS LAHATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00128 Sex: Male Status: Final sacrifice  
Day of death: 15

Study Start Date: 25-Apr-89  
Group: 5  
Terminal body weight (kms): 12.0 ML/KG/day  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
09-May-89	15/3	LIVER	95.9	2.98	986.0	Low
09-May-89	15/3	KIDNEY	20.7	0.64	212.7	High
09-May-89	15/3	HEART	8.8	0.27	90.8	Low
09-May-89	15/3	BRAIN	9.7	0.30	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.44	0.014	4.48	Low
09-May-89	15/3	TESTIS	5.26	0.163	54.04	Low
09-May-89	15/3	SPLEEN	1.9	0.06	19.1	

Tissue Finding, severity  
SKIN ABSCESS(ES), Mild  
RIGHT SIDE, AT CATETER, PUS AND FIBROSIS.

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments  
LAC. GLC. INFLAMMATION, INTERSTITIAL AND ADVENTITIAL, CHRONIC, Mild, Diffuse.

AORTA DEGENERATION, MEDIA, SUBACUTE, Mild, Focal.  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.



## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00148 Sex: Male Status: final sacrifice Group: 5 Dose level: 12.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.49

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	140.0	4.02	1500.7	High
09-May-89	15/3	KIDNEY	20.1	0.58	215.5	Low
09-May-89	15/3	HEART	8.0	0.23	85.5	Low
09-May-89	15/3	BRAIN	9.3	0.27	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.66	0.019	7.02	Low
09-May-89	15/3	TESTIS	5.41	0.155	57.95	Low
09-May-89	15/3	SPLEEN	1.5	0.04	16.3	

## &lt;&lt; Gross Observations &gt;&gt;

Tissue	Finding, severity	Gross Free-Text Comments
SKIN	INFLAMMATION, Marked EDEMA, Marked	SUBCUTIS LEFT THIGH SCROTUM

ADRENAL GLANDS ENLARGED, UNILATERALLY, MILD

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue	Necropsy memos
No necropsy memos recorded on animal	

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue	Histopathologic diagnoses / Special histological comments
MESEN.LYMPH NODE	Required protocol tissue is missing.
MAMMARY GLAND	Required protocol tissue is missing.
MISCELLANEOUS	INFLAMMATION, SUBACUTE, ADIPOSE TISSUE, Moderate, Diffuse.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010M

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Animal: 89F00259 Sex: Male  
Day of death: 15 Status: final sacrifice

Study Start Date: 25-Apr-89 Group: 5 Dose level: 12.0 ML/KG/day  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
31-May-89	37/6	LIVER	114.6	4.01	1175.3	
31-May-89	37/6	KIDNEY	21.4	0.75	219.8	High
31-May-89	37/6	HEART	14.2	0.49	145.2	
31-May-89	37/6	BRAIN	9.8	0.34	100.0	Low
31-May-89	37/6	ADRENAL GLANDS	0.55	0.019	5.63	
31-May-89	37/6	TESTIS	4.03	0.141	41.33	Low
31-May-89	37/6	SPLEEN	2.4	0.09	25.0	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.  
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Mild, Focal.

LIVER INFLAMMATION, PERIportal, SUBACUTE, Slight, Multifocal.

KIDNEY INFLAMMATION, RENAL PELVIS, SUBACUTE, Mild, Diffuse.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
 Study Number: 88010M

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00261 Sex: Male Status: final sacrifice Group: 5 Dose level: 12.0 ML/KG/day  
 Day of death: 15 Terminal body weight (kms): 2.82

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
31-May-89	37/6	LIVER	99.5	3.53	1180.2	
31-May-89	37/6	KIDNEY	17.1	0.61	203.2	High
31-May-89	37/6	HEART	10.9	0.39	129.5	
31-May-89	37/6	BRAIN	8.4	0.30	100.0	Low
31-May-89	37/6	ADRENAL GLANDS	0.32	0.011	3.79	
31-May-89	37/6	TESTIS	3.96	0.141	46.98	Low
31-May-89	37/6	SPLEEN	2.9	0.10	33.9	

<< Gross Observations >>  
 Gross free-text Comments

Tissue Finding, severity  
 WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>  
 Tissue Necropsy memos  
 No necropsy memos recorded on animal

<< Pathology Observations >>  
 Tissue Histopathologic diagnoses / Special histological comments  
 PARATHYROID Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.  
 MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010M

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Animal: 89F00120      Sex: Male      Study Start Date: 25-Apr-89      SUB-ACUTE/  
Day of death: 15      Status: Final sacrifice      Group: 6      Dose level: 16.0 ML/KG/day  
.....      .....      .....      .....      .....      .....  
.....      .....      .....      .....      .....      .....  
Date      Day/week of Study      Organ Name      << Organ Weight (gms)      Relative X of Body Weight      Relative X of Brain Weight      Organ Status  
.....      .....      .....      .....      .....      .....      .....  
09-May-89      15/3      LIVER      115.1      3.31      1199.9      Low  
09-May-89      15/3      KIDNEY      17.9      0.52      186.9      Low  
09-May-89      15/3      HEART      8.4      0.24      87.6      Low  
09-May-89      15/3      BRAIN      9.6      0.28      100.0      Low  
09-May-89      15/3      ADRENAL GLANDS      0.44      0.013      4.53      Low  
09-May-89      15/3      TESTIS      6.92      0.199      72.08      Low  
09-May-89      15/3      SPLEEN      1.4      0.04      14.9      Low

Tissue      Finding, severity      << Gross Observations >>  
.....      .....      .....  
WHOLE BODY      NO LESIONS RECOGNIZED      Gross free-text Comments

Tissue      Necropsy memos      << Necropsy Memos >>  
.....      .....      .....  
No necropsy memos recorded on animal

Tissue      Histopathologic diagnoses / Special histological comments      << Pathology Observations >>  
.....      .....      .....  
LUNGS      INFLAMMATION, INTERSTITIAL, SUBACUTE, SLIGHT, MULTIFOCAL.      .....  
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, MILD, FOCAL.      .....  
ADRENAL GLANDS      NECROSIS, COAGULATIVE, CORTICAL, SEVERE, FOCAL.      .....  
HESER. LYMPH NODE      Required protocol tissue is missing.      .....  
DIAPHRAGM      Required protocol tissue is missing.      .....  
MAMMARY GLAND      Required protocol tissue is missing.      .....

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00143      Sex: Male      Study Start Date: 25-Apr-89      SUB-ACUTE/  
Day of death: 15      Status: final sacrifice      Group: 6      Terminal body weight (kms): 3.59      16.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	79.6	2.22	866.4	Low
09-May-89	15/3	KIDNEY	18.7	0.52	203.8	Low
09-May-89	15/3	HEART	9.4	0.26	102.4	Low
09-May-89	15/3	BRAIN	9.2	0.26	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.38	0.011	4.17	Low
09-May-89	15/3	TESTIS	5.76	0.160	62.67	Low
09-May-89	15/3	SPLEEN	2.3	0.06	24.6	Low

<< Gross Observations >>  
Gross free-text Comments

Tissue      Finding, severity  
WHOLE BODY      NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue      Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue      Histopathologic diagnoses / Special histological comments

PITUITARY GLAND      Required protocol tissue is missing.

LUNGS      INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MAMMARY GLAND      Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 8801CM

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Animal: 89F00149 Sex: Male  
Day of death: 15 Status: Final sacrifice  
Study Start Date: 25-Apr-89 Group: 6  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Dose level: 16.0 ML/KG/day	Organ Status
09-May-89	15/3	LIVER	115.5	3.31	1308.8	Low	
09-May-89	15/3	KIDNEY	21.2	0.61	240.0	High	
09-May-89	15/3	HEART	9.4	0.27	106.5	Low	
09-May-89	15/3	BRAIN	8.8	0.25	100.0	Low	
09-May-89	15/3	ADRENAL GLANDS	0.74	0.021	8.34	Low	
09-May-89	15/3	TESTIS	7.21	0.207	81.66		
09-May-89	15/3	SPLEEN	3.6	0.10	40.4		

Organ Weights >>>  
Absolute Organ Weight (gms) Relative % of Body Weight Relative % of Brain Weight Organ Status  
LIVER 115.5 3.31 1308.8 Low  
KIDNEY 21.2 0.61 240.0 High  
HEART 9.4 0.27 106.5 Low  
BRAIN 8.8 0.25 100.0 Low  
ADRENAL GLANDS 0.74 0.021 8.34 Low  
TESTIS 7.21 0.207 81.66  
SPLEEN 3.6 0.10 40.4

Gross Observations >>>  
Gross Free-Text Comments  
DISSEMINATED FOCI, Mild DIA. AND CAUDATE LOBES MULTIPLE 1 X 2 CM  
Necropsy Memos >>>  
Necropsy memos  
No necropsy memos recorded on animal

Pathology Observations >>>  
Histopathologic diagnoses / Special histological comments  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.  
LIVER NECROSIS, COAGULATIVE, PARENCHYMAL, Moderate, Multifocal.  
MESEN.LYMPH NODE Required protocol tissue is missing.  
MAMMARY GLAND Required protocol tissue is missing.

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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010X

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00177

Sex: Male

Group: 6

Dose level: 16.0 ML/KG/day

3.78

Day of death: 15 Status: Final sacrifice

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
17-May-89	23/4	LIVER	126.4	3.34	1206.9	Low
17-May-89	23/4	KIDNEY	22.5	0.60	214.9	High
17-May-89	23/4	HEART	9.7	0.26	92.4	Low
17-May-89	23/4	BRAIN	10.5	0.28	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.52	0.014	4.96	Low
17-May-89	23/4	TESTIS	6.37	0.168	60.77	Low
17-May-89	23/4	SPLEEN	3.7	0.10	35.6	Low

Tissue finding, severity  
 KIDNEY INFARCT, MILD  
 Gross Free-Text Comments  
 RIGHT KIDNEY POSTERIOR POLE, 1 X 1 CM, ACUTE

Tissue Necropsy memos  
 No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments  
 LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, MILD, Multifocal.  
 KIDNEY INFLAMMATION, INTERSTITIAL, SUBACUTE, MILD, Multifocal.  
 PANCREAS Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF LES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 68010K

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00263

Sex: Male

Status: Final sacrifice

Group: 6

Dose level: 16.0 ML/KG/day

2.43

Day of death: 15

Date	Day/week of Study	Organ Name	<< Organ		>>		Organ Status
			Weight (gms)	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	
31-May-89	37/6	LIVER	43.4	1.79	512.1	Low	
31-May-89	37/6	KIDNEY	18.7	0.77	220.4	High	
31-May-89	37/6	HEART	6.9	0.29	81.8	Low	
31-May-89	37/6	BRAIN	8.5	0.35	100.0		
31-May-89	37/6	ADRENAL GLANDS	0.50	0.021	5.94	Low	
31-May-89	37/6	TESTIS	4.31	0.177	50.82		
31-May-89	37/6	SPLEEN	1.9	0.08	22.8		

Tissue	Finding, severity	<< Gross Observations >>	
		Gross Free-text Comments	
SKIN	INFLAMMATION, Marked	VENTRAL MIDLINE, WITH EDEMA	
LUNGS	HEMORRHAGE(S), Mild	MULTIFOCAL, BILATERAL	
VENA CAVA	THROMBUS, Moderate	AT LEVEL OF RENAL VEIN	

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue	Histopathologic diagnoses / Special histological comments	<< Pathology Observations >>	
		Required protocol tissue is missing.	
PITUITARY GLAND			
LUNGS	VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Mild, Focal.		
THYMUS	Required protocol tissue is missing.		
ADRENAL GLANDS	NECROSIS, COAGULATIVE, CORTICAL, Severe, Focal.		
SKELETAL MUSCLE	INFLAMMATION, AND SCARRING, CHRONIC, Mild, Multifocal.		

PATHOLOGY ANNEX (cont.)



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
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 RABBIT/NEW ZEALAND WHITE

Animal: 89F00263      Sex: Male  
 Day of death: 15      Status: final sacrifice

Individual Animal Data Dump Table  
 Study Number: 88010M  
 Study Start Date: 25-Apr-89      Group: 6

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SUB-ACUTE/  
 Dose level: 16.0 ML/KG/day  
 Terminal body weight (kms): 2.43

Tissue      Histopathologic diagnoses / Special histological comments  
 SKIN      INFLAMMATION, CHRONIC ACTIVE, AND NECROSIS, SUBCUTIS, Marked.

MAMMARY GLAND      Required protocol tissue is missing.

<< Pathology Observations >>

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

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Animal: 99F00115 Sex: Male  
Day of death: 16 Status: Final sacrifice  
Study Start Date: 25-Apr-89 Group: 7 SUB-ACUTE/

Date	Day/Week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Terminal body weight (kms)	Dose level: 8.0 ML/KG/day	Organ Status
09-May-89	15/3	LIVER	90.2	0.00	900.0		Low
09-May-89	15/3	KIDNEY	16.6	0.00	165.7		Low
09-May-89	15/3	HEART	8.9	0.00	88.8		Low
09-May-89	15/3	BRAIN	10.0	0.00	100.0		Low
09-May-89	15/3	ADRENAL GLANDS	0.37	0.000	3.73		Low
09-May-89	15/3	TESTIS	4.47	0.000	44.63		Low
09-May-89	15/3	SPLEEN	2.0	0.00	19.6		Low

<< Gross Observations >>

Tissue Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

SKELETAL MUSCLE DEEP TO RIGHT GASTROCNEMIUS MUSCLE: 15CC POCKET OF CLEAR FLUID.

<< Pathology Observations >>

Tissue

Histopathologic diagnoses / Special histological comments

THYMUS

Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010X

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00137 Sex: Male  
Day of death: 15 Status: Final sacrifice  
Group: 7 Terminal body weight (lbs): 3.86 Dose level: 8.0 ML/KG/day

Date	Day/week of Study	Organ Name	<< Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	92.5	2.39	1016.8	Low
09-May-89	15/3	KIDNEY	18.1	0.47	198.7	Low
09-May-89	15/3	HEART	8.1	0.21	88.6	Low
09-May-89	15/3	BRAIN	9.1	0.24	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.44	0.011	4.84	Low
09-May-89	15/3	TESTIS	4.55	0.118	50.03	Low
09-May-89	15/3	SPLEEN	1.5	0.04	16.4	

Tissue finding, severity << Gross Observations >>  
Gross free-text Comments

WHOLE BODY NO LESIONS RECOGNIZED

Tissue Necropsy memos << Necropsy Memos >>

No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

HESEN.LYMPH NODE Required protocol tissue is missing.

HAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
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Individual Animal Data Dump Table  
Study Number: 88010H

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Animal: 89F00171      Sex: Male      Study Start Date: 25-Apr-89      SUB-ACUTE/  
Day of death: 15      Status: final sacrifice      Group: 7      Terminal body weight (kms): 3.22      8.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
17-May-89	23/4	LIVER	92.0	2.85	885.6	Low
17-May-89	23/4	KIDNEY	21.0	0.65	202.2	High
17-May-89	23/4	HEART	8.3	0.26	79.8	Low
17-May-89	23/4	BRAIN	10.4	0.32	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.85	0.026	8.17	High
17-May-89	23/4	TESTIS	4.85	0.150	46.70	Low
17-May-89	23/4	SPLEEN	3.5	0.11	33.3	Low

<< Gross Observations >>  
Gross Free-Text Comments

Tissue finding, severity

EYES & OPTIC N. HEMORRHAGE, RETROBULAR, Mild

URINARY BLADDER ABNORMAL URINE, Moderate

HEMATURIA

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

PITUITARY GLAND Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

URETER Required protocol tissue is missing.

STOMACH ULCERATION AND INFLAMMATION, MUCOSA, ACUTE, slight.

MANDIBULAR GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010H

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00164  
Day of death: 15  
Sex: Male  
Status: Final sacrifice

Group: 7

Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.0%

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
17-May-89	23/4	LIVER	119.4	3.93	1197.8	
17-May-89	23/4	KIDNEY	22.1	0.73	221.4	High
17-May-89	23/4	HEART	7.8	0.26	77.9	Low
17-May-89	23/4	BRAIN	10.0	0.33	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.64	0.021	6.44	
17-May-89	23/4	TESTIS	5.54	0.182	55.56	Low
17-May-89	23/4	SPLEEN	51.5	1.70	516.9	

## &lt;&lt; Gross Observations &gt;&gt;

Gross Free-text Comments

Tissue Finding, severity  
LIVER LIPIDOSIS, Trace  
STOMACH ULCER, Mild

<< Necropsy Memos >>

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010M

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Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00264 Sex: Male Status: Final sacrifice Group: 7 Dose level: 8.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 2.97

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
31-May-89	37/6	LIVER	115.2	3.88	1291.5	
31-May-89	37/6	KIDNEY	18.8	0.63	210.3	High
31-May-89	37/6	HEART	9.2	0.31	103.0	
31-May-89	37/6	BRAIN	8.9	0.30	100.0	Low
31-May-89	37/6	ADRENAL GLANDS	0.38	0.013	4.20	
31-May-89	37/6	TESTIS	3.38	0.114	37.91	Low
31-May-89	37/6	SPLEEN	4.2	0.14	47.0	

Tissue Finding, severity << Gross Observations >>  
LUNGS HEMORRHAGE(S), Trace Gross Free-Text Comments

MULTIFOCAL

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, Focal.

PARATHYROID Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.  
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Moderate, Focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00125

Sex: Male

Status: Final sacrifice

Group: 8

Dose level: 12.0 ML/KG/day

3.65

SUB-ACUTE/

## &lt;&lt; Organ Weights &gt;&gt;

Date	Day/Week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
09-May-89	15/3	LIVER	86.0	2.36	887.2	Low
09-May-89	15/3	KIDNEY	14.7	0.40	151.5	Low
09-May-89	15/3	HEART	8.0	0.22	83.0	Low
09-May-89	15/3	BRAIN	9.7	0.27	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.52	0.014	5.36	Low
09-May-89	15/3	TESTIS	5.90	0.162	60.83	Low
09-May-89	15/3	SPLEEN	2.3	0.06	24.2	Low

## &lt;&lt; Gross Observations &gt;&gt;

Gross Free-Text Comments

Finding, severity

Tissue

WHOLE BODY

NO LESIONS RECOGNIZED

Tissue

Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue

Histopathologic diagnoses / Special histological comments

<< Pathology Observations >>

SKIN

GRANULATION TISSUE, WITH CYST FORMATION, SUBCUTIS, Marked, Diffuse.

MAMMARY GLAND

Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Study Number: 88010M

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Animal: 89F00145      Sex: Male      Study Start Date: 25-Apr-89      SUB-ACUTE/  
Day of death: 15      Status: Final sacrifice      Group: 8      Terminal body weight (kms): 3.30      Dose level: 12.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
09-May-89	15/3	LIVER	124.0	3.76	1135.8	
09-May-89	15/3	KIDNEY	22.3	0.68	204.7	High
09-May-89	15/3	HEART	9.3	0.28	85.1	
09-May-89	15/3	BRAIN	10.9	0.33	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.62	0.019	5.70	
09-May-89	15/3	TESTIS	5.88	0.178	53.86	Low
09-May-89	15/3	SPLEEN	2.1	0.06	19.4	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

LUNGS HEMORRHAGE, INTRA-ALVEOLAR, ACUTE, Marked, Multifocal.

SKIN NECROSIS AND ACUTE INFLAMMATION, EPIDERMIS, Mild, Focal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010M

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Animal: 89F00158      Sex: Male      Study Start Date: 25-Apr-89      SUB-ACUTE/  
Day of death: 14      Status: FOUND DEAD      Group: 8      Terminal body weight (kms):      Dose level: 12.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
No organ weight data for animal						

<< Organ Weights >>  
Absolute Organ Weight (gms)      Relative % of Body Weight      Relative % of Brain Weight      Organ Status

<< Gross Observations >>  
Gross Free-text Comments

Tissue      Finding, severity  
No gross observations recorded on animal.

<< Necropsy Memos >>

Tissue      Necropsy memos  
WHOLE BODY      AUTOLYTIC

<< Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

THYROID GLAND      CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, Focal.

LUNGS      HEMORRHAGE, INTRA-ALVEOLAR, ACUTE, Moderate, Multifocal.

LIVER      INFLAMMATION, PERIportal, SUBACUTE, Mild, Multifocal.  
BACTERIAL EMBOLI, Present.

KIDNEY      NECROSIS, TUBULAR, COAGULATIVE, Marked, Multifocal.  
BACTERIAL EMBOLI IN URINIFEROUS SPACE, Present.  
THROMBOSIS AND INFARCTION, PARENCHYMA, Marked, Multifocal.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00165

Sex: Male

Status: Final sacrifice

Group: 8

Dose level: 12.0 ML/KG/day

Terminal body weight (kms): 3.45

Day of death: 15

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
17-May-89	23/4	LIVER	123.7	3.59	1321.6	High
17-May-89	23/4	KIDNEY	20.9	0.61	223.7	Low
17-May-89	23/4	HEART	10.3	0.30	110.1	Low
17-May-89	23/4	BRAIN	9.4	0.27	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.41	0.012	4.39	Low
17-May-89	23/4	TESTIS	5.02	0.146	53.60	Low
17-May-89	23/4	SPLEEN	3.0	0.09	32.1	Low

<< Gross Observations >>  
Gross Free-text Comments

Tissue Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00266 Sex: Male  
Day of death: 7 Status: FOUND DEAD

Group: 8 Terminal body weight (kms):  
Dose level: 12.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
No organ weight data for animal						

Tissue Finding, severity  
No gross observations recorded on animal.

<< Gross Observations >>  
<< Necropsy Memos >>

Tissue Necropsy memos  
WHOLE BODY AUTOLYTIC

Tissue Histopathologic diagnoses / Special histological comments  
PARATHYROID Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.  
INFARCT, VASCULAR, CHRONIC, Moderate, Multifocal.  
BACTERIAL EMBOLI, INTRAVASCULAR, Present.

LIVER NECROSIS, COAGULATIVE, PARENCHYMAL \, Moderate, Multifocal.  
BACTERIAL EMBOLI, Present.

DIAPHRAGM DEGENERATION AND MINERALIZATION, CHRONIC, Moderate, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

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Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00121      Sex: Male      Status: Final sacrifice      Group: 9      Terminal body weight (kms): 3.78      Dose level: 16.0 ML/KG/day

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative X of		Organ Status
			Absolute Organ Weight (gms)	Relative X of Body Weight	Brain Weight	Weight	
09-May-89	15/3	LIVER	128.7	3.40	1394.1		
09-May-89	15/3	KIDNEY	20.7	0.55	223.9		
09-May-89	15/3	HEART	9.4	0.25	101.3		Low
09-May-89	15/3	BRAIN	9.2	0.24	100.0		Low
09-May-89	15/3	ADRENAL GLANDS	0.33	0.009	3.54		
09-May-89	15/3	TESTIS	4.41	0.116	47.73		Low
09-May-89	15/3	SPLEEN	2.8	0.07	30.7		

Tissue      Finding, severity      << Gross Observations >>  
SKIN      EDEMA, Trace      Gross Free-Text Comments  
2 CM AROUND CATHETER RIGHT THIGH

Tissue      Necropsy memos      << Necropsy Memos >>  
WHOLE BODY      AUTOLYTIC

Tissue      Histopathologic diagnoses / Special histological comments      << Pathology Observations >>  
LUNGS      INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.  
PANCREAS      Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00139 Sex: Male Status: Final sacrifice Group: 9 Dose level: 16.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.56

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
09-May-89	15/3	LIVER	139.8	3.92	1386.2	
09-May-89	15/3	KIDNEY	19.2	0.54	190.8	
09-May-89	15/3	HEART	9.9	0.28	98.5	Low
09-May-89	15/3	BRAIN	10.1	0.28	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.44	0.012	4.33	
09-May-89	15/3	TESTIS	6.62	0.186	65.69	Low
09-May-89	15/3	SPLEEN	1.5	0.04	15.2	

Tissue Finding, severity << Gross Observations >>  
Gross Free-text Comments

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

PARATHYROID Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MESEN.LYMPH NODE Required protocol tissue is missing.

SKIN NECROSIS AND ACUTE INFLAMMATION, EPIDERMIS, Moderate, Focal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 68010H

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Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00151 Sex: Male Status: Final sacrifice Group: 9 Dose level: 16.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 2.79

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
09-May-89	15/3	LIVER	95.6	3.43	988.6	
09-May-89	15/3	KIDNEY	14.6	0.52	151.4	
09-May-89	15/3	HEART	9.0	0.32	93.4	
09-May-89	15/3	BRAIN	9.7	0.35	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.43	0.015	4.46	
09-May-89	15/3	TESTIS	4.46	0.160	46.15	Low
09-May-89	15/3	SPLEEN	4.6	0.16	47.2	

Tissue Finding, severity << Gross Observations >>  
LUNGS PETECHIAE, Mild Gross Free-Text Comments

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER INFLAMMATION, PERIportal, SUBACUTE, Moderate, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00156 Sex: Male Status: Final sacrifice Group: 9 Terminal body weight (kgs): 4.05 Dose level: 16.0 ML/KG/day  
Day of death: 15

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
09-May-89	15/3	LIVER	131.7	3.25	1462.7	Low
09-May-89	15/3	KIDNEY	20.6	0.51	228.3	
09-May-89	15/3	HEART	12.4	0.31	137.2	Low
09-May-89	15/3	BRAIN	9.0	0.22	100.0	
09-May-89	15/3	ADRENAL GLANDS	0.47	0.012	5.19	Low
09-May-89	15/3	TESTIS	7.26	0.179	80.61	
09-May-89	15/3	SPLEEN	5.4	0.13	60.3	

Tissue Finding, severity << Gross Observations >>  
SKIN ULCER, Moderate Gross Free-text Comments

FOCAL THICKENING, Marked SCROTUM SUBCUTANEOUS INFLAMMATION LEFT THIGH

Tissue Necropsy Memos << Necropsy Memos >>

No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

SKIN NECROSIS AND ACUTE INFLAMMATION, EPIDERMIS, Moderate, focal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

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Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00267 Sex: Male Status: Final sacrifice Group: 9 Dose level: 16.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 2.64

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
31-May-89	37/6	LIVER	101.5	3.84	873.5	High
31-May-89	37/6	KIDNEY	22.2	0.84	190.6	High
31-May-89	37/6	HEART	9.0	0.34	77.1	Low
31-May-89	37/6	BRAIN	11.6	0.44	100.0	Low
31-May-89	37/6	ADRENAL GLANDS	0.30	0.011	2.61	Low
31-May-89	37/6	TESTIS	3.64	0.138	31.35	Low
31-May-89	37/6	SPLEEN	2.1	0.08	17.7	Low

Tissue Finding, severity << Gross Observations >>  
SKIN EDEMA, Mild Gross Free-Text Comments

LUNGS MEMORRHAGE(S), Trace  
CONGESTION, Mild SUBCUTIS INTERMANDIBULAR SPACE

HEART THROMBUS, Mild MULTIFOCAL  
THROMBUS, Moderate ATTACHED IN RIGHT VENTRICLE

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>

LAC. GLD. INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

KIDNEY DILATION, TUBULAR LUMENA, Mild, Multifocal.

PATHOLOGY ANNEX (cont.)



Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Animal: 89F00267  
Day of death: 15

Sex: Male  
Status: Final sacrifice

Individual Animal Data Dump Table  
Study Number: 88010M  
Study Start Date: 25-Apr-89  
Group: 9

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SUB-ACUTE/  
Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 2.64

Tissue SKIN  
Histopathologic diagnoses / Special histological comments  
EDEMA, SUBCUTIS, ACUTE, Moderate, Diffuse.  
PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Severe, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Severe, Focal.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

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Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00124      Sex: Male      Status: Final sacrifice      Group: 10      Dose level: 16.0 ML/KG/day  
Day of death: 15      Terminal body weight (kms): 3.45

Date	Day/week of Study	Organ Name	<< Organ Weights >>			Relative X of Brain Weight	Organ Status
			Absolute Organ Weight (gms)	Relative X of Body Weight			
09-May-89	15/3	LIVER	95.2	2.76	957.9	Low	
09-May-89	15/3	KIDNEY	19.2	0.56	193.4	Low	
09-May-89	15/3	HEART	9.5	0.27	95.2	Low	
09-May-89	15/3	BRAIN	9.9	0.29	100.0	Low	
09-May-89	15/3	ADRENAL GLANDS	0.60	0.017	5.98	Low	
09-May-89	15/3	TESTIS	5.40	0.156	54.32	Low	
09-May-89	15/3	SPLEEN	2.9	0.08	28.7		

Tissue      finding, severity      << Gross Observations >>  
WHOLE BODY      NO LESIONS RECOGNIZED      Gross free-text Comments

Tissue      Necropsy memos      << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue      Histopathologic diagnoses / Special histological comments      << Pathology Observations >>  
PITUITARY GLAND      Required protocol tissue is missing.

LUNGS      INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MESEN.LYMPH NODE      Required protocol tissue is missing.

MAMMARY GLAND      Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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PRESIDIO OF SAN FRANCISCO, CA 94129  
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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00142 Sex: Male Status: Final sacrifice Group: 10 Dose level: 16.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.58

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
09-May-89	15/3	LIVER	160.8	4.49	1614.9	High
09-May-89	15/3	KIDNEY	19.5	0.55	196.1	
09-May-89	15/3	HEART	10.5	0.29	105.8	Low
09-May-89	15/3	BRAIN	10.0	0.28	100.0	
09-May-89	15/3	ADRENAL GLANDS	0.59	0.016	5.90	Low
09-May-89	15/3	TESTIS	4.93	0.138	49.52	
09-May-89	15/3	SPLEEN	2.8	0.08	27.6	

Tissue Finding, severity << Gross Observations >>  
WHOLE BODY NO LESIONS RECOGNIZED Gross free-text Comments

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Moderate, focal.  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.  
MESEN.LYMPH NODE Required protocol tissue is missing.  
MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010M

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Study Start Date: 25-Apr-89

SUB-ACUTE/

Animal: 89F00158

Sex: Male

Status: Final sacrifice

Group: 10

Dose level: 16.0 ML/KG/day

Day of death: 15

Terminal body weight (kms): 3.11

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Organ Weight	Organ Status
09-May-89	15/3	LIVER	98.1	3.15	1093.3	Low
09-May-89	15/3	KIDNEY	17.4	0.56	193.8	Low
09-May-89	15/3	HEART	8.6	0.28	95.9	Low
09-May-89	15/3	BRAIN	9.0	0.29	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.74	0.024	8.21	Low
09-May-89	15/3	TESTIS	5.20	0.167	57.99	Low
09-May-89	15/3	SPLEEN	2.6	0.08	28.5	Low

<< Gross Observations >>  
Gross free-text Comments

Tissue Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memo >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010M

Study Start Date: 25-Apr-89 SUB-ACUTE/

Animal: 89F00136 Sex: Male Status: final sacrifice Group: 10 Dose level: 16.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.15

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative % of Brain Weight	Organ Status
			Absolute Organ Weight (gms)	Relative % of Body Weight		
09-May-89	15/3	LIVER	110.0	3.49	1096.9	
09-May-89	15/3	KIDNEY	20.7	0.66	206.5	High
09-May-89	15/3	HEART	8.7	0.27	86.3	Low
09-May-89	15/3	BRAIN	10.0	0.32	100.0	Low
09-May-89	15/3	ADRENAL GLANDS	0.56	0.018	5.59	
09-May-89	15/3	TESTIS	5.65	0.180	56.37	Low
09-May-89	15/3	SPLEEN	2.3	0.07	22.5	

Tissue Finding, severity << Gross Observations >>  
WHOLE BODY NO LESIONS RECOGNIZED Gross Free-text Comments

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010M

Animal: 89F00175 Sex: Male  
Day of death: 15 Status: final sacrifice  
Study Start Date: 25-Apr-89

SUB-ACUTE/

Group: 10 Terminal body weight (kms): 3.31 Dose level: 16.0 ML/KG/day

Date	Day/week of study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
17-May-89	23/4	LIVER	92.5	2.79	1017.8	Low
17-May-89	23/4	KIDNEY	20.1	0.61	221.0	High
17-May-89	23/4	HEART	8.5	0.26	93.0	Low
17-May-89	23/4	BRAIN	9.1	0.27	100.0	Low
17-May-89	23/4	ADRENAL GLANDS	0.50	0.015	5.54	Low
17-May-89	23/4	TESTIS	5.91	0.178	65.00	Low
17-May-89	23/4	SPLEEN	3.3	0.10	36.5	Low

<< Gross Observations >>

Tissue finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, MILD, Multifocal.

LIVER INFLAMMATION, PERIportal, SUBACUTE, Slight, Multifocal.

MAMMARY GLAND Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
 DIV OF RES SUPP, PATH SERV GP  
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 RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
 Study Number: 88010f

Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00339 Sex: Female Group: 1 Dose level: 8.0 ML/KG/day  
 Day of death: 15 Status: final sacrifice Terminal body weight (kms): 3.34

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	153.7	4.61	1609.9	High
13-Jun-89	15/3	KIDNEY	18.6	0.56	194.9	Low
13-Jun-89	15/3	HEART	8.1	0.24	85.0	Low
13-Jun-89	15/3	BRAIN	9.5	0.29	100.0	Low
13-Jun-89	15/3	OVARIES	0.49	0.015	5.17	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.38	0.012	4.02	
13-Jun-89	15/3	SPLEEN	2.0	0.06	21.1	

## &lt;&lt; Gross Observations &gt;&gt;

Tissue Finding, severity Gross free-text Comments  
 TRACHEA CYST, Mild MULTIFOCAL IN ADVENTITIA

OVARIES PARA-OVARIAN CYST(S), Trace  
 SKIN INFLAMMATION, Marked AROUND CATHETER  
 LIVER CYST(S), Trace CAPSULE  
 VENA CAVA THROMBUS, Mild AROUND CATHETER

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue Necropsy memos  
 No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue Histopathologic diagnoses / Special histological comments

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Mild.  
 LIVER INFLAMMATION, SUBACUTE, PERIportal, Mild, Multifocal.  
 OVARIES PARA-OVARIAN CYST, Mild, Focal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010f

Study Start Date: 30-May-89

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SUB-ACUTE/

Animal: 89F00339

Sex: Female

Status: Final sacrifice

Group: 1

Dose level: 8.0 ML/KG/day

3.34

Terminal body weight (kms):

<< P a t h o l o g y   O b s e r v a t i o n s   >>

Histopathologic diagnoses / Special histological comments

EDENIA, SUBCUTIS, Moderate, Diffuse.  
INFLAMMATION, CHRONIC-ACTIVE, Mild, Diffuse.

Tissue

SKIN



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV CP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00338 Sex: female  
Day of death: 15 Status: Final sacrifice

Group: 1

Dose level: 8.0 ml/kg/day  
Terminal body weight (kms): 3.61

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	102.6	2.84	1006.3	Low
13-Jun-89	15/3	KIDNEY	17.1	0.47	167.8	Low
13-Jun-89	15/3	HEART	9.4	0.26	92.5	Low
13-Jun-89	15/3	BRAIN	10.2	0.28	100.0	Low
13-Jun-89	15/3	OVARIES	0.40	0.011	3.87	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.39	0.011	3.84	
13-Jun-89	15/3	SPLEEN	5.6	0.16	55.1	

Tissue Finding, severity  
LIP ULKER, Mild  
Gross Observations  
Gross Free-Text Comments  
INFLAMMATION

OVARIES PARA-OVARIAN CYST(S), Mild

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments  
BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, slight, Multifocal.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, focal.

SPINAL CORD INFLAMMATION, SUBACUTE, Mild, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERIportal, Moderate, Multifocal.

KIDNEY INTERSTITIAL INFLAMMATION, SUBACUTE, Mild, Multifocal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010f

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**PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE**

Study Start Date: 30-May-89

Animal: 89F00338

**Sex: female**

Day of death: 15

**Status: final sacrifice**

**Group: 1**

Dose level:	8.0 ML/KG/day
Terminal body weight (kms):	3.61

**SUB-ACUTE /**

# Issue

**Histopathologic diagnoses / Special histological comments**

## CIVILIES

### PARA-OVARIAN CYST, MILD, FOCAL.

## ADRENAL GLANDS

**INFLAMMATION, INTERSTITIAL, SUBACUTE, SLIGHT, MULTIFOCAL.**

## MISCELLANEOUS

**PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, MODERATE, DIFFUSE.**

**THROMBOSIS, CHRONIC, VENA CAVA, MODERATE, FOCAL.**

## PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010F

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Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00352      Sex: Female      Group: 1      Dose level: 8.0 ML/KG/day  
Day of death: 15      Status: Final sacrifice      Terminal body weight (kms): 3.54

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative % of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	147.2	4.16	1561.1	
14-Jun-89	16/3	KIDNEY	18.7	0.53	197.8	
14-Jun-89	16/3	HEART	9.0	0.25	95.7	Low
14-Jun-89	16/3	BRAIN	9.4	0.27	100.0	Low
14-Jun-89	16/3	OVARIES	0.27	0.007	2.81	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.41	0.012	4.33	
14-Jun-89	16/3	SPLEEN	2.9	0.08	31.2	

Tissue      Finding, severity      << Gross Observations >>  
LUNGS      MEMORRHAGE(S), Trace      Gross free-text Comments

MULTIFOCAL, BROWN

<< Necropsy Memos >>

Tissue      Necropsy memos

No necropsy memos recorded on animal

Tissue      Histopathologic diagnoses / Special histological comments      << Pathology Observations >>

All protocol required tissues normal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Animal: 89F00369 Sex: Female  
Status: Final sacrifice  
Study start Date: 30-May-89  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Terminal body weight (kms)	Dose level: 8.0 ML/KG/day
20-Jun-89	22/4	LIVER	107.1	1071.4		
20-Jun-89	22/4	KIDNEY	18.8	188.4		
20-Jun-89	22/4	HEART	8.2	82.1		
20-Jun-89	22/4	BRAIN	10.0	100.0		
20-Jun-89	22/4	OVARIES	0.49	4.86		
20-Jun-89	22/4	ADRENAL GLANDS	0.54	5.35		
20-Jun-89	22/4	SPLEEN	2.3	23.1		

## Gross Observations

Tissue Finding, severity

SKIN ULCER, Moderate

LUNGS HEMORRHAGE(S), Trace

VENA CAVA THROMBUS, Moderate

Tissue Necropsy memos

No necropsy memos recorded on animal

## Pathology Observations

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, PERIVASCULAR, ACUTE, Slight, Multifocal.

DIAPHRAGM Required protocol tissue is missing.

SKIN EDEMA, SUBCUTIS, Mild, Diffuse.

MISCELLANEOUS NECROSIS, AND ACUTE INFLAMMATION, EPIDERMIS, Moderate, focal.

PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Diffuse.

THROMBOSIS, CHRONIC, VENA CAVA, Mild, focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Summary Table  
Study Number: 88010f

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Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00377 Sex: female

Day of death: 15 Status: final sacrifice

Group: 1

Dose level: 8.0 ML/KG/day

Terminal body weight (kms): 3.58

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	87.4	2.44	913.1	Low
21-Jun-89	23/4	KIDNEY	17.1	0.48	178.4	Low
21-Jun-89	23/4	HEART	8.8	0.24	91.4	Low
21-Jun-89	23/4	BRAIN	9.6	0.27	100.0	Low
21-Jun-89	23/4	OVARIES	0.27	0.007	2.79	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.28	0.008	2.96	
21-Jun-89	23/4	SPLEEN	4.0	0.11	42.2	

## &lt;&lt; Gross Observations &gt;&gt;

Gross free-text Comments

MULTIFOCAL

ON CATMETER

Tissue Finding, severity

LUNGS Hemorrhage(s), trace

VENA CAVA Thrombus, mild

Tissue Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Histopathologic diagnoses / Special histological comments

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, mild, focal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERI-PORTAL, slight, Multifocal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, slight, focal. THROMBOSIS, CHRONIC, VENA CAVA, mild, focal.

## Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00337

Sex: Female

Status: Final sacrifice

Group: 2

Dose level: 12.0 ML/KG/day

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SUB-ACUTE/

Date	Day/week of Study	Organ Name	Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	117.0	3.84	1268.1	
13-Jun-89	15/3	KIDNEY	16.3	0.54	176.7	
13-Jun-89	15/3	HEART	6.8	0.22	74.2	Low
13-Jun-89	15/3	BRAIN	9.2	0.30	100.0	Low
13-Jun-89	15/3	OVARIES	0.72	0.024	7.77	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.41	0.013	4.39	
13-Jun-89	15/3	SPLEEN	2.0	0.07	21.7	

Tissue Finding, severity << Gross Observations >>  
Gross Free-Text Comments

SKIN EDEMA, Mild

INTERMANDIBULAR SPACE

VENA CAVA THROMBUS, Moderate

TIP OF CATHETER

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Necropsy Memos >>

Tissue

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

SALIVARY GLAND

NECROSIS AND CHRONIC-ACTIVE CELLULITIS, Moderate, Multifocal.  
HEMORRHAGE AND EDEMA, ACUTE, Moderate, Diffuse.

THYROID GLAND

CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

LIVER

INFLAMMATION, SUBACUTE, PERIportal, Mild, Multifocal.

MISCELLANEOUS

PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Mild, Focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
 Study Number: 88010f

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00391

Sex: female

Status: Final sacrifice

Group: 2

Dose level: 12.0 ML/KG/day  
 Terminal body weight (kms): 3.15

Date	Day/Week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	117.7	3.73	1297.7	
14-Jun-89	16/3	KIDNEY	17.2	0.55	189.6	Low
14-Jun-89	16/3	HEART	8.5	0.27	93.5	Low
14-Jun-89	16/3	BRAIN	9.1	0.29	100.0	Low
14-Jun-89	16/3	OVARIES	0.23	0.007	2.58	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.44	0.014	4.89	
14-Jun-89	16/3	SPLEEN	7.9	0.25	87.2	

<< Gross Observations >>

Gross Free-Text Comments

AROUND CATHETER

Finding, severity

THROMBUS, Trace

Tissue

VENA CAVA

<< Necropsy Memos >>

Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

BRAIN  
 INFLAMMATION, PERIVASCULAR, SUBACUTE, Moderate, Diffuse.  
 INFLAMMATION, GRANULOMATOUS, Mild, Multifocal.

THYROID GLAND  
 CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, Focal.

LIVER  
 INFLAMMATION, SUBACUTE, PERI-PORTAL, Slight, Multifocal.

KIDNEY  
 INTERSTITIAL INFLAMMATION, SUBACUTE, Slight, Multifocal.

DIAPHRAGM  
 Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
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Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00358      Sex: Female      Status: Final sacrifice      Group: 2      Dose level: 12.0 ML/KG/day  
Day of death: 15      Terminal body weight (kms): 2.78

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	95.8	3.45	964.5	
14-Jun-89	16/3	KIDNEY	14.9	0.54	149.8	Low
14-Jun-89	16/3	HEART	7.6	0.27	76.1	Low
14-Jun-89	16/3	BRAIN	9.9	0.36	100.0	Low
14-Jun-89	16/3	OVARIES	0.32	0.011	3.18	
14-Jun-89	16/3	ADRENAL GLANDS	0.33	0.012	3.30	
14-Jun-89	16/3	SPLEEN	1.8	0.06	18.0	

## &lt;&lt; Gross Observations &gt;&gt;

Tissue      Finding, severity

URINARY BLADDER      ABNORMAL URINE

VENA CAVA      THROMBUS, Mild

Gross Free-Text Comments  
ORANGE-YELLOW, CLOUDY

ON CATHETER

Tissue      Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue      Histopathologic diagnoses / Special histological comments

BRAIN      INFLAMMATION, PERIVASCULAR, SUBACUTE, Mild, Diffuse.

INFLAMMATION, GRANULOMATOUS, Mild, Multifocal.

THYROID GLAND      CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

KIDNEY      INTERSTITIAL INFLAMMATION, SUBACUTE, Slight, Multifocal.



# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
 Study Number: 88010F  
 Study Start Date: 30-May-89  
 SUB-ACUTE/  
 Animal: 89F00371  
 Sex: Female  
 Status: final sacrifice  
 Group: 2  
 Dose level: 12.0 ML/Kg/day  
 Day of death: 15  
 Terminal body weight (kms): -----

Date	Day/week of Study	Organ Name	<< Organ Weights >>			Relative X of Brain Weight	Organ Status
			Absolute Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight		
20-Jun-89	22/4	LIVER	96.7	-----	986.7	-----	-----
20-Jun-89	22/4	KIDNEY	16.4	-----	167.4	-----	-----
20-Jun-89	22/4	HEART	5.6	-----	56.9	-----	-----
20-Jun-89	22/4	BRAIN	9.8	-----	100.0	-----	-----
20-Jun-89	22/4	OVARIES	0.21	-----	2.14	-----	-----
20-Jun-89	22/4	ADRENAL GLANDS	0.51	-----	5.25	-----	-----
20-Jun-89	22/4	SPLEEN	2.7	-----	27.1	-----	-----

Tissue Finding, severity  
 LIVER LIPIDOSIS, Trace  
 GROSS OBSERVATIONS >>  
 Gross Free-Text Comments  
 MEDIAL LOBE

CECUM LUMINAL CONTENTS BLOODY  
 FILLED WITH RED-BROWN FLUID

GUT Lymph Tissue CLOT  
 ON SURFACE

LUNGS HEMORRHAGE(S), Mild  
 MULTIFOCAL

KIDNEY HEMORRHAGE(S), Mild  
 MEDULLA

VENA CAVA THROMBUS, Mild  
 AROUND CATHETER

Tissue Necropsy memos  
 << Necropsy Memos >>

No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments  
 << Pathology Observations >>

BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, Slight, Multifocal.  
 INFLAMMATION, GRANULOMATOUS, Mild, Multifocal.

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00371

Sex: Female

Status: Final sacrifice

Group: 2

Dose level: 12.0 ML/KG/day

Terminal body weight (kgs):

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<< P a t h o l o g y   O b s e r v a t i o n s   >>

Tissue      Histopathologic diagnoses / Special histological comments

THYROID GLAND      CYST, THYRO-GLOSSAL DUCT REMNANT, Moderate, focal.

HEART      INFLAMMATION, INTERSTITIAL, ACUTE, WITH BACTERIA, Moderate, Multifocal.

LUNGS      INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER      INFLAMMATION, SUBACUTE, PERIportal, Moderate, Diffuse.

KIDNEY      INTERSTITIAL INFLAMMATION, SUBACUTE, Slight, Multifocal.  
VACUOLATED TUBULAR EPITHELIUM, Slight, Multifocal.

DIAPHRAGM      INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

EYES & OPTIC N.      INFLAMMATION, SUBACUTE, CHOROID, slight, Multifocal.

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00389      Sex: Female      Group: 2      Dose level: 12.0 ML/KG/day  
Day of death: 15      Status: Final sacrifice      Terminal body weight (kms): 3.57

Date	Day/week of Study	Organ Name	<< Organ Weight (gms)	>> Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	166.2	4.66	1627.8	High
21-Jun-89	23/4	KIDNEY	17.8	0.50	195.6	
21-Jun-89	23/4	HEART	9.4	0.26	103.0	Low
21-Jun-89	23/4	BRAIN	9.1	0.25	100.0	Low
21-Jun-89	23/4	OVARIES	0.68	0.019	7.50	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.51	0.014	5.62	
21-Jun-89	23/4	SPLEEN	7.3	0.20	80.2	

Tissue      Finding, severity      << Gross Observations >>  
SKIN      EDEMA, Moderate      Gross Free-Text Comments

UNDER CHIN

MULTIFOCAL

AROUND CATMETER

<< Necropsy Memos >>

Tissue      Necropsy memos

No necropsy memos recorded on animal

Tissue      Histopathologic diagnoses / Special histological comments      << Pathology Observations >>

LUNGS      INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER      INFLAMMATION, SUBACUTE, PERIportal, Slight, Multifocal.

SKIN      EDEMA, SUBCUTIS, Mild, Diffuse.  
VASCULITIS, SUBACUTE, DERMIS, Mild, Multifocal.

MISCELLANEOUS      PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, Focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Animal: 89F00368 Sex: Female  
Day of death: 15 Status: Final sacrifice  
Study Start Date: 30-May-89  
SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	139.1	4.47	1479.9	High
13-Jun-89	15/3	KIDNEY	17.3	0.55	183.5	
13-Jun-89	15/3	HEART	9.3	0.30	98.9	Low
13-Jun-89	15/3	BRAIN	9.4	0.30	100.0	Low
13-Jun-89	15/3	OVARIES	0.33	0.011	3.50	
13-Jun-89	15/3	ADRENAL GLANDS	0.36	0.012	3.83	
13-Jun-89	15/3	SPLEEN	1.2	0.04	13.2	

Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 3.12

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

LUNGS ALVEOLAR HISTIOCYTOSIS, slight, focal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Severe, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Marked, focal.

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00355      Sex: Female      Group: 3      Dose level: 16.0 ML/KG/day  
Day of death: 15      Status: Final sacrifice      Terminal body weight (kms): 3.33

Date	Day/Week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	119.9	3.60	1245.6	High
14-Jun-89	16/3	KIDNEY	19.3	0.58	200.7	Low
14-Jun-89	16/3	HEART	7.5	0.23	78.2	Low
14-Jun-89	16/3	BRAIN	9.6	0.29	100.0	Low
14-Jun-89	16/3	OVARIES	0.29	0.009	2.96	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.38	0.011	3.95	
14-Jun-89	16/3	SPLEEN	2.0	0.06	20.6	

## &lt;&lt; Gross Observations &gt;&gt;

Gross Free-Text Comments

INTERMANDIBULAR, SKIN

AROUND CATHETER

Tissue Finding, severity

SKIN EROSION, Trace

VENA CAVA THROMBUS, Moderate

## &lt;&lt; Necropsy Memos &gt;&gt;

Tissue Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Tissue Histopathologic diagnoses / Special histological comments

BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, Slight, focal.

INFLAMMATION, GRANULOMATOUS, Mild, Multifocal.

HEART INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERIPORTAL, Mild, Multifocal.

KIDNEY INTERSTITIAL INFLAMMATION, SUBACUTE, Mild, Multifocal.

VACUOLATED TUBULAR EPITHELIUM, Mild, Multifocal.

PATHOLOGY ANNEX (cont.)

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Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00355

Sex: Female

Status: Final sacrifice

Group: 3

Dose level: 16.0 ML/KG/day

3.33

Terminal body weight (kms):

Terminal body weight (kms):

< Pathology Observations >

#### Tissue

Histopathologic diagnoses / Special histological comments

#### DIAPHRAGM

INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Focal.

#### SKIN

INFLAMMATION, CHRONIC-ACTIVE, Moderate, Diffuse.  
NECROSIS, AND ACUTE INFLAMMATION, EPIDERMIS, Mild, Focal.

#### MISCELLANEOUS

PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate. Diffuse  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, Focal.

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00370      Sex: Female      Status: Final sacrifice      Group: 3      Terminal body weight (kms):      Dose level: 16.0 ML/KG/day  
Day of death: 15

Date	Day/Week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
20-Jun-89	22/4	LIVER	132.5	---	1278.9	---
20-Jun-89	22/4	KIDNEY	19.9	---	191.7	---
20-Jun-89	22/4	HEART	8.9	---	85.7	---
20-Jun-89	22/4	BRAIN	10.4	---	100.0	---
20-Jun-89	22/4	OVARIES	0.31	---	3.03	---
20-Jun-89	22/4	ADRENAL GLANDS	0.41	---	3.96	---
20-Jun-89	22/4	SPLEEN	2.0	---	19.5	---

<< Gross Observations >>

Gross Free-Text Comments  
NUMEROUS SCRATCHES ON BACK  
LEFT REAR LEG

Tissue Finding, severity

SKIN EROSION, Moderate  
HEMATOMA, Moderate

LUNGS HEMORRHAGE(S), Trace

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

KIDNEY VACUOLATED TUBULAR EPITHELIUM, Slight, Multifocal.

SKIN EDEMA, SUBC" IS, Marked, Diffuse.

HEMORRHAGE, 'BCUTIS, Marked, Diffuse.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00368 Sex: Female  
Day of death: 15 Status: Final sacrifice  
Group: 3 Terminal body weight (kms): 3.39 Dose level: 16.0 ML/KG/day

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative % of Brain Weight	Relative % of Organ
			Absolute Weight (gms)	Relative % of Body Weight		
20-Jun-89	22/4	LIVER	159.2	4.70	1680.1	High
20-Jun-89	22/4	KIDNEY	13.7	0.41	144.9	
20-Jun-89	22/4	HEART	8.9	0.26	94.0	Low
20-Jun-89	22/4	BRAIN	9.5	0.28	100.0	Low
20-Jun-89	22/4	OVARIES	0.30	0.009	3.14	Low
20-Jun-89	22/4	ADRENAL GLANDS	0.39	0.012	4.15	
20-Jun-89	22/4	SPLEEN	8.3	0.25	87.9	

Tissue	Finding, severity	<< Gross Observations >>	
		Gross Free-Text Comments	
LUNGS	HEMORRHAGE(S), Mild	MULTIFOCAL, BILATERAL	
VEHA CAVA	THROMBUS, Trace	AROUND CATHEETER	

<< Necropsy Memos >>	
Tissue	Necropsy memos
No necropsy memos recorded on animal	

<< Pathology Observations >>	
Tissue	Histopathologic diagnoses / Special histological comments
HEART	INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.
LUNGS	INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.
MISCELLANEOUS	PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Multifocal. THROMBOSIS, CHRONIC, VENA CAVA, Moderate, focal.



## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00383 Sex: Female Group: 3 Cse level: 16.0 ML/KG/day  
Day of death: 15 Status: Final sacrifice Terminal body weight (kms): 2.51

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	105.9	4.22	1029.0	High
21-Jun-89	23/4	KIDNEY	16.2	0.65	157.5	High
21-Jun-89	23/4	HEART	9.0	0.36	87.0	Low
21-Jun-89	23/4	BRAIN	10.3	0.41	100.0	Low
21-Jun-89	23/4	OVARIES	0.21	0.008	2.02	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.40	0.016	3.91	
21-Jun-89	23/4	SPLEEN	2.1	0.08	20.3	

Tissue Finding, severity << Gross Observations >>  
SKIN EDEMA, Mild Gross Free-Text Comments  
SURCUTIS UNDER CHIN

LUNGS CONGESTION, Trace  
VENA CAVA THROMBUS, Trace AROUND CATHETER

Tissue Necropsy memos << Necropsy Memos >>  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
SALIVARY GLAND HEMORRHAGE AND EDEMA, ACUTE, Mild, Diffuse.

LIVER INFLAMMATION, SUBACUTE, PERIportal, Slight, Multifocal.

MISCELLANEOUS THROMBOSIS, CHRONIC, VENA CAVA, Slight, Focal.

PATHOLOGY ANNEX (cont.)

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Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00345

Sex: Female

Status: Final sacrifice

Group: 4

Dose level: 8.0 ML/Kg/day

3.39

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	115.8	3.42	1231.1	
13-Jun-89	15/3	KIDNEY	18.6	0.55	197.8	
13-Jun-89	15/3	HEART	10.8	0.32	114.5	
13-Jun-89	15/3	BRAIN	9.4	0.28	100.0	
13-Jun-89	15/3	OVARIES	0.33	0.010	3.55	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.33	0.010	3.52	Low
13-Jun-89	15/3	SPLEEN	2.5	0.07	26.4	

<< Gross Observations >>  
Gross free-text Comments

Tissue Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

Tissue

LUNGS VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Mild, focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00354

Sex: Female

Status: Final sacrifice

Group: 4

Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.32

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	110.4	3.33	1209.4	Low
14-Jun-89	16/3	KIDNEY	16.4	0.50	180.0	
14-Jun-89	16/3	HEART	10.1	0.31	111.2	
14-Jun-89	16/3	BRAIN	9.1	0.28	100.0	Low
14-Jun-89	16/3	OVARIES	0.38	0.012	4.20	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.43	0.013	4.67	
14-Jun-89	16/3	SPLEEN	0.9	0.03	10.1	

<< Gross Observations >>  
Gross free-text Comments

ON CATMETER

Finding, severity  
THROMBUS, Mild

<< Necropsy Memos >>

Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

THYROID GLAND  
CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, Focal.

LUNGS  
VASCULAR CONGESTION, ACUTE, slight, Diffuse.

LIVER  
CONGESTION, VASCULAR, ACUTE, slight, Diffuse.

DIAPHRAGM  
Required protocol tissue is missing.

MISCELLANEOUS  
PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Mild, Multifocal.  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, Focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010F

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Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00374 Sex: Female  
Day of death: 15 Status: Final sacrifice Group: 4 Dose level: 8.0 ML/KG/day  
Terminal body weight (kgs): 3.14

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
20-Jun-89	22/4	LIVER	118.1	3.76	1300.1	
20-Jun-89	22/4	KIDNEY	12.2	0.39	134.5	
20-Jun-89	22/4	HEART	8.8	0.28	96.8	LOW
20-Jun-89	22/4	BRAIN	9.1	0.29	100.0	LOW
20-Jun-89	22/4	OVARIES	0.19	0.006	2.06	
20-Jun-89	22/4	ADRENAL GLANDS	0.46	0.015	5.09	
20-Jun-89	22/4	SPLEEN	2.7	0.09	29.7	

## Gross Observations

Tissue Finding, severity  
VENA CAVA THROMBUS, Mild  
Gross Free-text Comments  
AROUND CATHEETER

## Necropsy Memos

Tissue Necropsy memos  
No necropsy memos recorded on animal

## Pathology Observations

Tissue Histopathologic diagnoses / Special histological comments  
BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, slight, Multifocal.  
THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, focal.  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, slight, Multifocal.  
LIVER INFLAMMATION, SUBACUTE, PERIportal, Mild, Multifocal.  
KIDNEY INTERSTITIAL INFLAMMATION, SUBACUTE, Mild, Multifocal.  
CECUM INFLAMMATION, MUCOSAL, SUBACUTE, slight, Diffuse.  
MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, slight, focal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010f

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00374

Sex: Female

Status: Final sacrifice

Group: 4

Dose level: 8.0 ML/KG/day

3.14

Terminal body weight (kms):

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

MISCELLANEOUS THROMBOSIS, CHRONIC, VENA CAVA, Mild, focal.

## Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Animal: 89F00387 Sex: Female  
Day of death: 15 Status: Final sacrifice  
Study Start Date: 30-May-89 Group: 4 SUB-ACUTE/  
Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.38

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	99.3	2.94	1086.1	Low
21-Jun-89	23/4	KIDNEY	16.3	0.48	178.5	Low
21-Jun-89	23/4	HEART	7.6	0.23	83.5	Low
21-Jun-89	23/4	BRAIN	9.1	0.27	100.0	Low
21-Jun-89	23/4	OVARIES	0.50	0.015	5.42	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.50	0.015	5.43	Low
21-Jun-89	23/4	SPLEEN	3.1	0.09	33.6	Low

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity  
VENA CAVA THROMBUS, Mild  
AROUND CATETER

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments  
BRAIN INFLAMMATION, GRANULOMATOUS, Slight, Multifocal.  
SALIVARY GLAND INFLAMMATION, INTERSTITIUM, CHRONIC, Mild, Diffuse.  
THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Moderate, Focal.  
LIVER INFLAMMATION, SUBACUTE, PERIportal, Mild, Multifocal.  
DIAPHRAGM Required protocol tissue is missing.  
MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Mild, Focal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00380 Sex: Female  
Day of death: 15 Status: Final sacrifice

Group: 4

Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.04

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	92.0	3.03	1030.6	Low
21-Jun-89	23/4	KIDNEY	18.6	0.61	208.1	High
21-Jun-89	23/4	HEART	105.5	3.47	1182.4	Exclude
21-Jun-89	23/4	BRAIN	8.9	0.29	100.0	Low
21-Jun-89	23/4	OVARIES	0.26	0.009	2.91	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.32	0.011	3.60	
21-Jun-89	23/4	SPLEEN	5.0	0.16	55.9	

<< Gross Observations >>

Tissue	Finding, severity	Gross Free-Text Comments
SKIN	ULCER, Mild	FLANK
SALIVARY GLAND	HEMORRHAGE(S), Mild	PAROTID
KIDNEY	DISCOLORATION, Mild	DARK
VENA CAVA	THROMBUS, Mild	AROUND CATHETER

<< Necropsy Memos >>

Tissue	Necropsy memos
No necropsy memos recorded on animal	

<< Pathology Observations >>

Tissue	Histopathologic diagnoses / Special histological comments
LUNGS	INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.
LIVER	INFLAMMATION, SUBACUTE, PERIportal, Slight, Multifocal.
KIDNEY	INFLAMMATION, ACUTE, RENAL PELVIS, Moderate, Diffuse.
URINARY BLADDER	INFLAMMATION, INTERSTITIAL-SUBMUCOSAL, SUBACUTE, Mild, Diffuse.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00380 Sex: Female Group: 4 Dose level: 8.0 ML/KG/day  
Day of death: 15 Status: Final sacrifice Terminal body weight (kms): 3.04

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

SKIN NECROSIS, AND ACUTE INFLAMMATION, EPIDERMIS, Moderate, Focal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Marked, Focal.



## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00341 Sex: Female Status: Final sacrifice Group: 5 Terminal body weight (kms): 3.05 Dose Level: 12.0 ML/KG/day  
Day of death: 15

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	110.9	3.64	1289.0	
13-Jun-89	15/3	KIDNEY	16.5	0.54	191.4	Low
13-Jun-89	15/3	HEART	8.0	0.26	92.5	Low
13-Jun-89	15/3	BRAIN	8.6	0.28	100.0	Low
13-Jun-89	15/3	OVARIES	0.19	0.006	2.22	
13-Jun-89	15/3	ADRENAL GLANDS	0.44	0.014	5.08	
13-Jun-89	15/3	SPLEEN	1.8	0.06	20.6	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

Tissue INFLAMMATION, INTERSTITIUM, CHRONIC, slight, Multifocal.

SALIVARY GLAND

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, focal.

LUNGS INFLAMMATION, INTERSTITIAL, ACUTE, Mild, Diffuse.

LIVER INFLAMMATION, SUBACUTE, PERIportal, Mild, Multifocal.

SKELETAL MUSCLE INFLAMMATION, INTERSTITIUM/ADVENTITIA, CHRONIC, Mild, Multifocal.

SKIN Required protocol tissue is missing.

MAMMARY GLANDS Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Summary Table  
Study Number: 88010F

Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00347 Sex: Female  
Day of death: 15 Status: Final sacrifice

Group: S Terminal body weight (kms): 12.0 ML/KG/day  
Dose level: 3.37

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative % of Brain Weight	Organ Status
			Absolute Organ Weight (gms)	Relative % of Body Weight		
13-Jun-89	15/3	LIVER	103.8	3.08	1009.5	Low
13-Jun-89	15/3	KIDNEY	19.4	0.58	188.9	High
13-Jun-89	15/3	HEART	7.9	0.24	77.3	Low
13-Jun-89	15/3	BRAIN	10.3	0.31	100.0	Low
13-Jun-89	15/3	OVARIES	0.32	0.010	3.15	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.40	0.012	3.92	
13-Jun-89	15/3	SPLEEN	2.1	0.06	20.8	

## << Gross Observations >> Gross Free-Text Comments

Tissue Finding, severity  
LUNGS HEMORRHAGE(S), Mild  
VENA CAVA THROMBUS, Trace

MULTIFOCAL, BROWN  
AROUND CATHETER

## << Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

## << Pathology Observations >>

Histopathologic diagnoses / Special histological comments

BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, Slight, Multifocal.  
INFLAMMATION, GRANULOMATOUS, Slight, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.  
VASCULAR CONGESTION, ACUTE, Mild, Diffuse.

KIDNEY INTERSTITIAL INFLAMMATION, SUBACUTE, Slight, Multifocal.

## Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010f

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Animal: 89F00360  
Sex: Female  
Status: Final sacrifice  
Study Start Date: 30-May-89  
Group: 5  
SUB-ACUTE/

Day of death: 15  
Dose level: 12.0 ML/KG/day  
Terminal body weight (kms): 3.23

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	89.3	2.77	976.6	Low
14-Jun-89	16/3	KIDNEY	16.5	0.51	180.9	Low
14-Jun-89	16/3	HEART	9.0	0.28	98.4	Low
14-Jun-89	16/3	BRAIN	9.1	0.28	100.0	Low
14-Jun-89	16/3	OVARIES	0.76	0.024	8.34	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.35	0.011	3.77	Low
14-Jun-89	16/3	SPLEEN	49.9	1.54	545.3	Low

<< Gross Observations >>

Gross Free-text Comments

Tissue Finding, severity

SKIN EROSION, Mild

LUNGS HEMORRHAGE(S), Mild

VERTEBRAL BODY FRACTURE

NECK MULTIFOCAL, BROWN

TRANSVERSE PROCESS. L 4,5,6

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

SKIN EDEMA, SUBCUTIS, Moderate, Diffuse.  
NECROSIS, AND ACUTE INFLAMMATION, EPIDERMIS, Moderate, Focal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00375  
Sex: Female  
Status: final sacrifice

Group: 5  
Dose level: 12.0 ML/Kg/day  
Terminal body weight (kms): 3.20

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative % of Brain Weight	Organ Status
			Absolute Weight (gms)	Relative % of Body Weight		
20-Jun-89	22/4	LIVER	86.3	2.70	524.9	Low
20-Jun-89	22/4	KIDNEY	17.0	0.53	103.5	Low
20-Jun-89	22/4	HEART	8.9	0.28	54.0	Low
20-Jun-89	22/4	BRAIN	16.5	0.51	100.0	Low
20-Jun-89	22/4	OVARIES	0.25	0.008	1.52	Low
20-Jun-89	22/4	ADRENAL GLANDS	0.38	0.012	2.29	Low
20-Jun-89	22/4	SPLEEN	2.7	0.09	16.5	Low

Tissue Finding, severity << Gross Observations >>  
LUNGS MEMORRAGE(S), Trace Gross Free-Text Comments

FOCAL

ON CATNETER

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

Tissue << Pathology Observations >>  
Histopathologic diagnoses / Special histological comments

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, focal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, focal.

LIVER INFLAMMATION, SUBACUTE, PERIPORTAL, Slight, focal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Mild, diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Mild, focal.

## Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00394

Sex: Female

Status: Final sacrifice

Group: 5

Terminal body weight (kms):

Dose level: 12.0 ML/KG/day

3.75

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	113.0	3.02	1136.7	Low
21-Jun-89	23/4	KIDNEY	18.4	0.49	184.9	Low
21-Jun-89	23/4	HEART	8.1	0.22	81.6	Low
21-Jun-89	23/4	BRAIN	9.9	0.27	100.0	Low
21-Jun-89	23/4	OVARIES	0.57	0.015	5.71	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.44	0.012	4.41	
21-Jun-89	23/4	SPLEEN	3.9	0.10	39.0	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments  
BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, MILD, Multifocal.  
INFLAMMATION, GRANULOMATOUS, Slight, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERIportal, Slight, Multifocal.

KIDNEY ISOLATED TUBULAR EPITHELIUM, Moderate, Focal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00343 Sex: female  
Day of death: 15 Status: final sacrifice

Group: 6

Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 3.42

Date	Day/week of Study	Organ Name	<< Organ Weights >>		Relative % of Brain Weight	Organ Status
			Absolute Organ Weight (gms)	Relative % of Body Weight		
13-Jun-89	15/3	LIVER	151.1	4.42	1706.3	High
13-Jun-89	15/3	KIDNEY	17.3	0.51	195.4	
13-Jun-89	15/3	HEART	9.9	0.29	112.1	
13-Jun-89	15/3	BRAIN	8.9	0.26	100.0	Low
13-Jun-89	15/3	OVARIES	0.27	0.008	3.00	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.35	0.009	3.33	
13-Jun-89	15/3	SPLEEN	1.0	0.05	18.1	

Tissue Finding, severity Gross Urogenital >>  
VENA CAVA THROMBUS, Mild Gross free-zeal comments

AROUND CATMETER

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue << Pathology Observations >>  
LUNGS Histopathologic diagnoses / Special histological comments  
INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

SKIN Required protocol tissue is missing.

MAMMARY GLANDS Required protocol tissue is missing.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Marked, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Marked, Focal.

## Appendix I (cont.): PATHOLOGY REPORT

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DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITEIndividual Animal Data Dump Table  
Study Number: A8010f

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00357

Sex: female

Status: final sacrifice

Group: 6

Dose level: 16.0 ML/KG/day

3.65

SUB-ACUTE/

&lt;&lt; Organ Weights &gt;&gt;

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	111.0	3.04	1102.8	Low
14-Jun-89	16/3	KIDNEY	18.9	0.52	187.8	
14-Jun-89	16/3	HEART	11.9	0.33	118.5	Low
14-Jun-89	16/3	BRAIN	10.1	0.28	100.0	Low
14-Jun-89	16/3	OVARIES	0.36	0.010	3.56	
14-Jun-89	16/3	ADRENAL GLANDS	0.36	0.010	3.56	
14-Jun-89	16/3	SPLEEN	2.2	0.06	21.5	

&lt;&lt; Gross Observations &gt;&gt;

Gross free-text Comments

Tissue finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

&lt;&lt; Necropsy Memos &gt;&gt;

Tissue Necropsy memos

No necropsy memos recorded on animal

&lt;&lt; Pathology Observations &gt;&gt;

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, ACUTE, Slight, Multifocal.

DIAPHRAGM Required protocol tissue is missing.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Animal: 89F00362  
Day of death: 15  
Sex: female  
Status: final sacrifice

Individual Animal Data Dump Table  
Study Number: 88010f

Study Start Date: 30-May-89

SUB-ACUTE/

Group: 6  
Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 3.16

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	123.3	3.90	1257.8	
14-Jun-89	16/3	KIDNEY	14.7	0.47	150.0	
14-Jun-89	16/3	HEART	11.2	0.35	113.7	
14-Jun-89	16/3	BRAIN	9.8	0.31	100.0	Low
14-Jun-89	16/3	OVARIES	0.37	0.012	3.77	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.35	0.011	3.58	
14-Jun-89	16/3	SPLEEN	2.6	0.08	26.5	

<< Gross Observations >>

Tissue Finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

DIAPHRAGM Required protocol tissue is missing.





# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00379 Sex: Female  
Day of death: 15 Status: final sacrifice  
Group: 6 Terminal body weight (lbs): 2.76  
Dose level: 16.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	96.0	3.47	1010.3	
21-Jun-89	23/4	KIDNEY	14.5	0.53	152.9	
21-Jun-89	23/4	HEART	7.5	0.27	79.5	Low
21-Jun-89	23/4	BRAIN	9.5	0.34	100.0	Low
21-Jun-89	23/4	OVARIES	0.37	0.014	3.94	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.38	0.014	4.02	
21-Jun-89	23/4	SPLEEN	2.2	0.08	22.7	

Tissue Finding, severity  
STOMACH TRICHOBEZOAR, Mild  
FALLOPIAN TUBE CYST, Mild

MULTIFOCAL

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERIportal, slight, Multifocal.  
INFLAMMATION, PARENCHYMA, PYOGNULOMATOUS, slight, Multifocal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Severe, focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Animal: 89F00344  
Day of death: 15

Sex: Female  
Status: Final sacrifice

Individual Animal Data Dump Table  
Study Number: 88010f

Study Start Date: 30-May-89

Group: 7

Dose level: 8.0 ML/Kg/day  
Terminal body weight (kms): 3.74

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SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	126.7	3.38	1212.9	Low
13-Jun-89	15/3	KIDNEY	16.4	0.44	156.6	Low
13-Jun-89	15/3	HEART	9.5	0.25	91.2	Low
13-Jun-89	15/3	BRAIN	10.4	0.28	100.0	Low
13-Jun-89	15/3	OVARIES	0.32	0.009	3.07	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.21	0.005	1.96	Low
13-Jun-89	15/3	SPLEEN	2.4	0.06	23.0	Low

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity

VENA CAVA THROMBUS, Mild

LUNGS HEMORRHAGE(S), Moderate  
PNEUMONIA, Mild

MULTIFOCAL  
ACUTE

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Moderate, Multifocal.

LIVER HEMORRHAGE, ACUTE, Mild, Focal.

SKIN INFLAMMATION, CHRONIC-ACTIVE, Slight, Focal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Marked, Focal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00353 Sex: Female  
Day of death: 15 Status: Final sacrifice Group: 7 Terminal body weight (kms): 3.82  
Dose level: 8.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	136.3	3.57	1548.2	
14-Jun-89	16/3	KIDNEY	15.0	0.39	170.7	
14-Jun-89	16/3	HEART	7.5	0.20	85.6	Low
14-Jun-89	16/3	BRAIN	8.8	0.23	100.0	Low
14-Jun-89	16/3	OVARIES	0.52	0.014	5.86	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.45	0.012	5.11	
14-Jun-89	16/3	SPLEEN	1.7	0.04	18.8	

<< Gross Observations >>

Gross Free-Text Comments

AROUND CATHETER

<< Necropsy Memos >>

Tissue Finding, severity

VENA CAVA THROMBUS, Moderate

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

SCIATIC NERVE INFLAMMATION, PERINEURAL FAT, ACUTE, Mild, Multifocal.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Focal.

LIVER CONGESTION, VASCULAR, ACUTE, Mild, Diffuse.

KIDNEY VACUOLATED TUBULAR EPITHELIUM, Slight, Multifocal.

SKIN INFLAMMATION, CHRONIC-ACTIVE, Slight, Diffuse.

GUT-LYMPHOID TIS Required protocol tissue not examined.

PATHOLOGY ANNEX (cont.)

Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00353

Sex: female

Status: Final sacrifice

Group: 7

Dose level: 8.0 ML/KG/day

3.82

Terminal body weight (kms):

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

MISCELLANEOUS

PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Marked, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, focal.

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/  
Dose level: 8.0 ML/KG/day

Terminal body weight (kms): 3.34

Group: 7

Sex: Female  
Status: Final sacrifice

Animal: 89F00372  
Day of death: 15

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
20-Jun-89	22/4	LIVER	118.7	3.55	1164.0	High
20-Jun-89	22/4	KIDNEY	24.5	0.73	240.0	Low
20-Jun-89	22/4	HEART	16.6	0.50	162.8	Low
20-Jun-89	22/4	BRAIN	10.2	0.31	100.0	Low
20-Jun-89	22/4	OVARIES	0.35	0.011	3.45	Low
20-Jun-89	22/4	ADRENAL GLANDS	0.33	0.010	3.20	Low
20-Jun-89	22/4	SPLEEN	3.5	0.11	34.5	Low

Tissue Finding, severity  
LIP INFLAMMATION, Moderate

VENA CAVA THROMBUS, Mild

Tissue Necropsy memos

No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERI-PORTAL, Mild, Multifocal.

SKIN INFLAMMATION, CHRONIC-ACTIVE, Marked, Diffuse.

MISCELLANEOUS THROMBOSIS, CHRONIC, VENA CAVA, Slight, Focal.

COMMISSURES AROUND CATHETER

MEMOS

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00366

Sex: Female

Status: final sacrifice

Group: 7

Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.52

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
20-Jun-89	22/4	LIVER	143.2	4.07	1465.7	
20-Jun-89	22/4	KIDNEY	19.6	0.56	200.7	Low
20-Jun-89	22/4	HEART	9.2	0.26	93.9	Low
20-Jun-89	22/4	BRAIN	9.8	0.28	100.0	Low
20-Jun-89	22/4	OVARIES	0.26	0.007	2.67	
20-Jun-89	22/4	ADRENAL GLANDS	0.65	0.018	6.62	
20-Jun-89	22/4	SPLEEN	4.6	0.13	47.1	

## &lt;&lt; Gross Observations &gt;&gt;

Gross Free-Text Comments

UNDER COLLAR, NECK

AROUND CATHETER

Tissue Finding, severity

SKIN ULCER, Marked

VENA CAVA THROMBUS, Mild

Tissue Necropsy memos

No necropsy memos recorded on animal

## &lt;&lt; Pathology Observations &gt;&gt;

Histopathologic diagnoses / Special histological comments

INFLAMMATION, PERIVASCULAR, SUBACUTE, Slight, Multifocal.

INFLAMMATION, GRANULOMATOUS, Slight, focal.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

HEART INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Focal.

LIVER INFLAMMATION, SUBACUTE, PERIportal, Slight, Multifocal.

GALL BLADDER EDEMA, MUCOSA, ACUTE, Slight, Diffuse.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00366  
Day of death: 15

Sex: Female  
Status: Final sacrifice

Group: 7

Dose level: 8.0 ML/KG/day  
Terminal body weight (kms): 3.52

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

KIDNEY INTERSTITIAL INFLAMMATION, SUBACUTE, Slight, Diffuse.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Mild, Multifocal.  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, Focal.  
INFLAMMATION, CHRONIC-ACTIVE, LIP, Marked, Diffuse.



## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00390 Sex: Female Status: Final sacrifice Group: 7 Dose level: 8.0 ML/KG/day  
Day of death: 15 Terminal body weight (kms): 3.42

Date	Day/Week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	120.2	3.52	1242.0	
21-Jun-89	23/4	KIDNEY	17.5	0.51	181.1	Low
21-Jun-89	23/4	HEART	9.5	0.28	98.0	Low
21-Jun-89	23/4	BRAIN	9.7	0.28	100.0	Low
21-Jun-89	23/4	OVARIES	0.44	0.013	4.51	
21-Jun-89	23/4	ADRENAL GLANDS	0.51	0.015	5.22	
21-Jun-89	23/4	SPLEEN	5.6	0.16	58.1	

<< Gross Observations >>  
Gross Free-Text Comments

UNDER CHIN

Tissue Finding, severity

SKIN EDEMA, Mild

<< Necropsy Memos >>

Tissue Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

SALIVARY GLAND INFLAMMATION, INTERSTITIAL, SUBACUTE, Moderate, Diffuse.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, Focal.

HEART INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Moderate, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERIportal, Mild, Multifocal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Moderate, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Mild, Focal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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Individual Animal Data Dump Table  
Study Number: 880107

Study Start Date: 30-May-89

SUB-ACUTE/

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Terminal body weight (kms)	Dose level:	12.0 ML/KG/day	3.14	Organ Status
13-Jun-89	15/3	LIVER	106.9	3.40					
13-Jun-89	15/3	KIDNEY	14.8	0.47					
13-Jun-89	15/3	HEART	8.9	0.28					
13-Jun-89	15/3	BRAIN	9.4	0.30					Low
13-Jun-89	15/3	OVARIES	0.26	0.008					Low
13-Jun-89	15/3	ADRENAL GLANDS	0.40	0.013					
13-Jun-89	15/3	SPLEEN	2.0	0.06					

## << Gross Observations >>

Tissue Finding, severity  
VENA CAVA THROMBUS, Mild

## << Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

## << Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

MAMMARY GLANDS NECROSIS, ACUTE, Slight, Focal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Mild, Focal.  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, Focal.

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00359 Sex: Female  
Day of death: 15 Status: Final sacrifice

Group: 8

Dose level: 12.0 ML/XG/day  
Terminal body weight (kms): 2.90

Date	Day/week of Study	Organ Name	<< Organ Weights >>			Relative % of Brain Weight
			Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	
14-Jun-89	16/3	LIVER	101.6	3.50	1005.1	
14-Jun-89	16/3	KIDNEY	15.6	0.54	154.7	
14-Jun-89	16/3	HEART	7.7	0.27	76.5	
14-Jun-89	16/3	BRAIN	10.1	0.35	100.0	
14-Jun-89	16/3	OVARIES	0.60	0.021	5.92	
14-Jun-89	16/3	ADRENAL GLANDS	0.50	0.017	4.93	
14-Jun-89	16/3	SPLEEN	2.2	0.08	21.8	

Tissue Finding, severity << Gross Observations >>  
VENA CAVA THROMBUS, Mild Gross Free-Text Comments

AROUND CATHETER

Tissue Necropsy Memos << Necropsy Memos >>

No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER INFLAMMATION, SUBACUTE, PERIportal, Slight, Multifocal.

KIDNEY VACUOLATED TUBULAR EPITHELIUM, Slight, Multifocal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Mild, Diffuse.  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, Focal.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
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RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010F

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Animal: 89F00365      Sex: Female      Study Start Date: 30-May-89      SUB-ACUTE/  
Day of death: 15      Status: Final sacrifice      Group: 8      Dose level: 12.0 ML/KG/day  
Terminal body weight (kms): 3.30

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
20-Jun-89	22/4	LIVER	149.0	4.51	1495.6	High
20-Jun-89	22/4	KIDNEY	23.9	0.72	240.3	High
20-Jun-89	22/4	HEART	8.9	0.27	89.0	Low
20-Jun-89	22/4	BRAIN	10.0	0.30	100.0	Low
20-Jun-89	22/4	OVARIES	2.26	0.068	22.71	High
20-Jun-89	22/4	ADRENAL GLANDS	0.73	0.022	7.30	
20-Jun-89	22/4	SPLEEN	6.3	0.19	62.9	

Tissue      Finding, severity      << Gross Observations >>      Gross free-text Comments

KIDNEY      FRIBROUS SCAR(S), Mild

VENA CAVA      THROMBUS, Mild

BILATERAL CORTEX

AROUND CATHETER

Tissue      Necropsy memos

No necropsy memos recorded on animal

Tissue      Histopathologic diagnoses / Special histological comments      << Pathology Observations >>

BRAIN      INFLAMMATION, PERIVASCULAR, SUBACUTE, Slight, Multifocal.  
INFLAMMATION, GRANULOMATOUS, Slight, Multifocal.  
INFLAMMATION, LEPTOMENINGES, SUBACUTE, Mild, Multifocal.

HEART      INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

LUNGS      INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

LIVER      INFLAMMATION, SUBACUTE, PERIportal, Slight, Multifocal.

KIDNEY      INTERSTITIAL INFLAMMATION, SUBACUTE, Mild, Multifocal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00365 Sex: Female  
Day of death: 15 Status: Final sacrifice

Group: 8

Dose level: 12.0 ML/KG/day  
Terminal body weight (kms): 3.30

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

KIDNEY VACUOLATED TUBULAR EPITHELIUM, Moderate, Multifocal.  
NECROSIS, TUBULAR, ACUTE, Mild, Multifocal.

MISCELLANEOUS THROMBOSIS, CHRONIC, VENA CAVA, Slight, Focal.

## Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89 SUB-ACUTE/

Animal: 89F00392 Sex: Female Group: 8 Dose level: 12.0 ML/KG/day  
Day of death: 15 Status: Final sacrifice Terminal body weight (kms): 2.82

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	107.6	3.82	1023.0	
21-Jun-89	23/4	KIDNEY	16.9	0.60	161.0	High
21-Jun-89	23/4	HEART	8.5	0.30	80.9	
21-Jun-89	23/4	BRAIN	10.5	0.37	100.0	Low
21-Jun-89	23/4	OVARIES	0.32	0.011	3.04	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.35	0.012	3.34	
21-Jun-89	23/4	SPLEEN	3.3	0.12	31.7	

<< Gross Observations >>  
Gross Free-text Comments

Tissue Finding, severity  
SALIVARY GLAND HEMORRHAGE(S), Mild  
LUNGS CONGESTION, Mild  
FALLOPIAN TUBE CYST, Trace

PAROTID

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LAC. GLD. HEMORRHAGE, ACUTE, Mild, Diffuse.

TRACHEA CONGESTION, VASCULAR, ACUTE, Mild, Diffuse.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.  
VASCULAR CONGESTION, ACUTE, Slight, Diffuse.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00392  
Day of death: 15

Sex: Female  
Status: Final sacrifice

Group: 8

Dose level: 12.0 ML/KG/day  
Terminal body weight (kms): 2.82

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

LIVER INFLAMMATION, SUBACUTE, PERIportal, Mild, Multifocal.

KIDNEY VACUOLATED TUBULAR EPITHELIUM, Mild, Multifocal.  
DILATED TUBULES, Slight, Multifocal.

DIAPHRAGM INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Slight, Multifocal.  
THROMBOSIS, CHRONIC, VENA CAVA, Mild, Focal.

## Appendix I (cont.): PATHOLOGY REPORT

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RABBIT/NEW ZEALAND WHITE

Animal: 89F00393  
Sex: Female  
Status: Final sacrifice  
Day of death: 15

Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

Group: 8

Terminal body weight (kms): 3.22

Dose level: 12.0 ML/KG/day

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SUB-ACUTE/

<< Organ Weights >>

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	97.7	3.03	1057.1	Low
21-Jun-89	23/4	KIDNEY	14.5	0.45	156.4	Low
21-Jun-89	23/4	HEART	6.8	0.21	73.8	Low
21-Jun-89	23/4	BRAIN	9.2	0.29	100.0	Low
21-Jun-89	23/4	OVARIES	0.32	0.010	3.41	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.37	0.012	4.02	
21-Jun-89	23/4	SPLEEN	2.5	0.08	27.3	

<< Gross Observations >>

Gross Free-text Comments

Tissue Finding, severity  
LUNGS CONGESTION, Trace

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

SALIVARY GLAND NECROSIS AND CHRONIC-ACTIVE CELLULITIS, slight, focal.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, slight, focal.

LUNGS INFLAMMATION, PERIVASCULAR, ACUTE, slight, Multifocal.  
VASCULAR CONGESTION, ACUTE, slight, Diffuse.

LIVER INFLAMMATION, SUBACUTE, PERIportal, slight, Multifocal.

PANCREAS Required protocol tissue is missing.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, slight, focal.  
THROMBOSIS, CHRONIC, VENA CAVA, mild, focal.

PATHOLOGY ANNEX (cont.)



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PAIN SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00349 Sex: Female  
Day of death: 15 Status: Final sacrifice Group: 9 Terminal body weight (kms): 3.05 Dose level: 16.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	104.5	3.43	1018.6	
13-Jun-89	15/3	KIDNEY	16.6	0.54	161.6	
13-Jun-89	15/3	HEART	7.0	0.23	67.9	Low
13-Jun-89	15/3	BRAIN	10.3	0.34	100.0	Low
13-Jun-89	15/3	OVARIES	0.18	0.006	1.74	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.42	0.014	4.11	
13-Jun-89	15/3	SPLEEN	2.1	0.07	20.7	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue	Finding, severity	Gross Free-Text Comments
LUNGS	HEMORRHAGE(S), Mild	MULTIFOCAL, BROWN
VENA CAVA	THROMBUS, Trace	AROUND CATHETER
KIDNEY	HEMORRHAGE(S), Moderate	PERIRENAL

<< Necropsy Memos >>

Tissue	Necropsy memos
No necropsy memos recorded on animal	

<< Pathology Observations >>

Tissue	Histopathologic diagnoses / Special histological comments
BRAIN	INFLAMMATION, PERIVASCULAR, SUBACUTE, Moderate, Diffuse. INFLAMMATION, GRANULOMATOUS, Moderate, Multifocal.
SCIATIC NERVE	INFLAMMATION, PERINEURAL FAT, ACUTE, Slight, Multifocal.
SPINAL CORD	INFLAMMATION, SUBACUTE, Slight, Multifocal.
LUNGS	INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal. HEMORRHAGE, INTRA-ALVEOLAR, ACUTE, Slight, Multifocal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT, NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010F

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Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00349

Sex: Female

Status: Final sacrifice

Group: 9

Dose level: 16.0 ML/KG/day

3.05

Terminal body weight (kms):

>>

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

INFLAMMATION, SUBACUTE, PERIportal, slight, Multifocal.

INTERSTITIAL INFLAMMATION, SUBACUTE, slight, Multifocal.

PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Marked, diffuse-  
THROMBOSIS, CHRONIC, VENA CAVA, Marked, focal.

PATHOLOGY ANNEX (cont.)

Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE  
Animal: 89F00340  
Day of death: 15  
Sex: Female  
Status: Final sacrifice  
Group: 9  
Study Start Date: 30-May-89  
Study Number: 88010F  
Individual Animal Data Dump Table  
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SUB-ACUTE/

Day of death: 15		Sex: Female		Status: Final sacrifice		Group: 9		Dose level: 16.0 ML/KG/day		SUB-ACUTE/	
Date		Day/week of Study		Organ Name		<< Organ Weight (gms)		>> Relative X of Brain Weight		Terminal body weight (kms): 3.54	
Date		Day/week of Study		Organ Name		<< Organ Weight (gms)		>> Relative X of Brain Weight		Terminal body weight (kms): 3.54	
13-Jun-89	15/3	15/3	LIVER	123.0	3.48	1277.1					
13-Jun-89	15/3	15/3	KIDNEY	16.6	0.47	172.0					
13-Jun-89	15/3	15/3	HEART	9.9	0.28	103.0					
13-Jun-89	15/3	15/3	BRAIN	9.6	0.27	100.0					
13-Jun-89	15/3	15/3	OVARIES	0.47	0.013	4.83					
13-Jun-89	15/3	15/3	ADRENAL GLANDS	0.30	0.008	3.06					
13-Jun-89	15/3	15/3	SPLEEN	3.3	0.09	34.0					

Tissue Finding, severity  
VENA CAVA THROMBUS, Mild

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments  
BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, Moderate, Diffuse.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

LIVER INFLAMMATION, SUBACUTE, PERIPIOTAL, Mild, Multifocal.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00356 Sex: Female  
Day of death: 15 Status: Final sacrifice Group: 9 Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 3.32

Date	Day/week of Study	Organ Name	<< Organ Weights >>		>> Relative X of		Organ Status
			Absolute Weight (gms)	Body Weight	Brain Weight	Weight	
14-Jun-89	16/3	LIVER	115.7	3.49	1182.4		
14-Jun-89	16/3	KIDNEY	18.1	0.55	185.3		
14-Jun-89	16/3	HEART	8.1	0.25	83.2		Low
14-Jun-89	16/3	BRAIN	9.8	0.30	100.0		Low
14-Jun-89	16/3	OVARIES	0.34	0.010	3.49		Low
14-Jun-89	16/3	ADRENAL GLANDS	0.36	0.011	3.72		
14-Jun-89	16/3	SPLEEN	2.1	0.06	21.4		

Tissue Finding, severity << Gross Observations >>  
VENA CAVA THROMBUS, Mild Gross Free-Text Comments

AROUND CATHETER

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

Tissue Histopathologic diagnoses / Special histological comments << Pathology Observations >>  
LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.

MISCELLANEOUS PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, Mild, focal.

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SEKV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00367

Sex: Female

Status: Final sacrifice

Group: 9

Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 3.50

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
20-Jun-89	22/4	LIVER	136.8	3.91	1390.4	
20-Jun-89	22/4	KIDNEY	18.8	0.54	191.1	Low
20-Jun-89	22/4	HEART	6.3	0.18	64.2	Low
20-Jun-89	22/4	BRAIN	9.8	0.28	100.0	Low
20-Jun-89	22/4	OVARIES	0.26	0.007	2.62	
20-Jun-89	22/4	ADRENAL GLANDS	0.48	0.014	4.87	
20-Jun-89	22/4	SPLEEN	2.3	0.07	23.4	

<< Gross Observations >>

Gross Free-Text Comments

Finding, severity

WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

BRAIN INFLAMMATION, PERIVASCULAR, SUBACUTE, MILD, Multifocal.  
INFLAMMATION, GRANULOMATOUS, Slight, Multifocal.

SCIATIC NERVE Required protocol tissue is missing.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, MILD, Multifocal.

KIDNEY VACUOLATED TUBULAR EPITHELIUM, Slight, Multifocal.

SKELETAL MUSCLE Required protocol tissue is missing.

MAMMARY GLANDS Required protocol tissue is missing.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH		Individual Animal Data Dump Table		PRINTED: 27-Oct-89
DIV OF RES SUPP, PATH SERV GP		Study Number: 88010F		Page: 56
PRESIDIO OF SAN FRANCISCO, CA 94129		Study Start Date: 30-May-89		SUB-ACUTE/
RABBIT/NEW ZEALAND WHITE		Group: 9		16.0 ML/KG/day
Animal: 89F00367	Sex: Female	Terminal body weight (kms):	3.50	
Day of death: 15	Status: Final sacrifice			
<< Pathology Observations >>				
Tissue	Histopathologic diagnoses / Special histological comments			
MISCELLANEOUS	PHLEBITIS, CHRONIC-ACTIVE, VEHA CAVA, Mild, Focal.			

# Appendix I (cont.): PATHOLOGY REPORT

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LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Animal: 89F00384      Sex: Female      Status: Final sacrifice      Study Start Date: 30-May-89      SUB-ACUTE/  
Day of death: 15      Group: 9      Terminal body weight (kms): 16.0 ML/KG/day      3.02

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	123.7	4.10	1423.2	
21-Jun-89	23/4	KIDNEY	18.4	0.61	211.1	High
21-Jun-89	23/4	HEART	9.2	0.31	105.9	
21-Jun-89	23/4	BRAIN	8.7	0.29	100.0	Low
21-Jun-89	23/4	OVARIES	0.32	0.011	3.65	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.46	0.015	5.25	
21-Jun-89	23/4	SPLEEN	5.7	0.19	65.9	

## << Gross Observations >>

Gross Free-Text Comments

PAROTID

AROUND CATHETER

## << Necropsy Memos >>

No necropsy memos recorded on animal

## << Pathology Observations >>

Histopathologic diagnoses / Special histological comments

Tissue	
SALIVARY GLAND	HEMORRHAGE AND EDEMA, ACUTE, Mild, Diffuse.
THYROID GLA D	CYST, THYRO-GLOSSAL DUCT REMNANT, Moderate, Focal.
HEART	INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.
LIVER	INFLAMMATION, SUBACUTE, PERIportal, Mild, Diffuse.
KIDNEY	REDUPLICATION/HYPERPLASIA, BILE DUCTULES, Mild, Diffuse.
	INTERSTITIAL INFLAMMATION, SUBACUTE, Mild, Multifocal.
	VACUOLATED TUBULAR EPITHELIUM, Mild, Multifocal.

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010F

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Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00384 Sex: Female  
Day of death: 15 Status: Final sacrifice

Group: 9

Dose level: 16.0 ML/KG/day  
Terminal body weight (kms): 3.02

<< Pathology Observations >>

Tissue Histopathologic diagnoses / Special histological comments

KIDNEY NECROSIS, TUBULAR, ACUTE, Slight, Multifocal.  
DILATED TUBULES, Slight, Multifocal.

DIAPHRAGM INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89 SUB-ACUTE/-

Animal: 89F00350 Sex: Female  
Day of death: 15 Status: Final sacrifice Group: 10 Terminal body weight (kms): 3.40 Dose level: 16.0 ML/KG/day

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative % of Body Weight	Relative % of Brain Weight	Organ Status
13-Jun-89	15/3	LIVER	92.1	2.71	974.6	Low
13-Jun-89	15/3	KIDNEY	19.3	0.57	203.8	High
13-Jun-89	15/3	HEART	12.4	0.37	131.4	
13-Jun-89	15/3	BRAIN	9.5	0.28	100.0	Low
13-Jun-89	15/3	OVARIES	0.44	0.013	4.63	Low
13-Jun-89	15/3	ADRENAL GLANDS	0.35	0.010	3.66	
13-Jun-89	15/3	SPLEEN	2.6	0.08	27.9	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue	Finding, severity	Gross Free-Text Comments
LUNGS	HEMORRHAGE(S), Mild	MULTIFOCAL
VENA CAVA	HEMORRHAGE, Moderate	AROUND CATHETER

<< Necropsy Memos >>

Tissue	Necropsy memos
	No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue	Histopathologic diagnoses / Special histological comments
BRAIN	INFLAMMATION, PERIVASCULAR, SUBACUTE, Moderate, Diffuse. INFLAMMATION, GRANULOMATOUS, Moderate, Multifocal.
THYROID GLAND	CYST, THYRO-GLOSSAL DUCT REMNANT, Moderate, Focal. CYST, FOLLICULAR, Slight, Multifocal.
LUNGS	VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Mild, Multifocal.
LIVER	INFLAMMATION, SUBACUTE, PERIPORTAL, Mild, Multifocal.

PATHOLOGY ANNEX (cont.)

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

Individual Animal Data Dump Table  
Study Number: 88010F

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Animal: 89F00351      Sex: Female      Study Start Date: 30-May-89      SUB-ACUTE/  
Day of death: 15      Status: Final sacrifice      Group: 10      Terminal body weight (kms): 3.51      Dose level: 16.0 ML/KG/day

Date	Day/Week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
14-Jun-89	16/3	LIVER	87.2	2.48	921.2	Low
14-Jun-89	16/3	KIDNEY	18.2	0.52	192.4	
14-Jun-89	16/3	HEART	10.5	0.30	110.5	
14-Jun-89	16/3	BRAIN	9.5	0.27	100.0	Low
14-Jun-89	16/3	OVARIES	0.42	0.012	4.41	Low
14-Jun-89	16/3	ADRENAL GLANDS	0.32	0.009	3.40	
14-Jun-89	16/3	SPLEEN	1.8	0.05	19.4	

<< Gross Observations >>

Tissue      Finding, severity      Gross Free-Text Comments  
VENA CAVA      THROMBUS, Trace      NO CATETER

<< Necropsy Memos >>

Tissue      Necropsy memos

No necropsy memos recorded on animal

<< Pathology Observations >>

Tissue      Histopathologic diagnoses / Special histological comments

All protocol required tissues normal.

PATHOLOGY ANNEX (cont.)



## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010F

Animal: 89F00364 Sex: female  
Status: Final sacrifice

Study Start Date: 30-May-89

SUB-ACUTE/

Day of death: 15  
Date: 20-Jun-89  
Group: 10  
Terminal body weight (kms): 16.0 ML/KG/day  
Dose level: 3.29

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
20-Jun-89	22/4	LIVER	89.3	2.72	902.6	Low
20-Jun-89	22/4	KIDNEY	16.4	0.50	165.9	
20-Jun-89	22/4	HEART	10.3	0.31	104.1	
20-Jun-89	22/4	BRAIN	9.9	0.30	100.0	Low
20-Jun-89	22/4	OVARIES	0.29	0.009	2.94	Low
20-Jun-89	22/4	ADRENAL GLANDS	0.47	0.014	4.76	
20-Jun-89	22/4	SPLEEN	1.6	0.05	15.9	

<< Gross Observations >>

Tissue Finding, severity  
VENA CAVA THROMBUS, Moderate

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

INFLAMMATION, PERIVASCULAR, SUBACUTE, Slight, Multifocal.  
INFLAMMATION, GRANULOMATOUS, Slight, Multifocal.

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Slight, Focal.

HEART INFLAMMATION, INTERSTITIAL, SUBACUTE, Slight, Multifocal.  
INFLAMMATION, INTERSTITIAL, ACUTE, WITH BACTERIA, Slight, Multifocal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.  
VASCULITIS, NECROTIZING, CHRONIC, WITH THROMBUS, Mild, Focal.

LIVER INFLAMMATION, SUBACUTE, PERIPORTAL, Moderate, Multifocal.  
INFLAMMATION, PARENCHYMA, PYOGRANULOMATOUS, Mild, Multifocal.

PATHOLOGY ANNEX (cont.)

# Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

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Individual Animal Data Dump Table  
Study Number: 88010f

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00364

Sex: female

Status: Final sacrifice

Group: 10

Dose level: 16.0 ML/KG/day

3.29

Terminal body weight (kms):

>>

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

INTERSTITIAL INFLAMMATION, SUBACUTE, slight, Multifocal.

PHLEBITIS, CHRONIC-ACTIVE, VENA CAVA, slight, focal.  
THROMBOSIS, CHRONIC, VENA CAVA, Moderate, focal.

MISCELLANEOUS

## Appendix I (cont.): PATHOLOGY REPORT

LETTERMAN ARMY INSTITUTE OF RESEARCH  
DIV OF RES SUPP, PATH SERV GP  
PRESIDIO OF SAN FRANCISCO, CA 94129  
RABBIT/NEW ZEALAND WHITE

PRINTED: 27-Oct-89  
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Individual Animal Data Dump Table  
Study Number: 88010F

Study Start Date: 30-May-89

SUB-ACUTE/

Animal: 89F00381      Sex: Female      Status: Final sacrifice      Group: 10      Terminal body weight (kms): 16.0 ML/KG/day  
Day of death: 15      Dose level: 3.90

Date	Day/week of Study	Organ Name	Absolute Organ Weight (gms)	Relative X of Body Weight	Relative X of Brain Weight	Organ Status
21-Jun-89	23/4	LIVER	143.4	3.68	1473.5	
21-Jun-89	23/4	KIDNEY	17.7	0.45	181.9	Low
21-Jun-89	23/4	HEART	8.3	0.21	85.6	Low
21-Jun-89	23/4	BRAIN	9.7	0.25	100.0	Low
21-Jun-89	23/4	OVARIES	0.29	0.007	2.96	Low
21-Jun-89	23/4	ADRENAL GLANDS	0.29	0.008	3.02	
21-Jun-89	23/4	SPLEEN	2.7	0.07	27.7	

<< Gross Observations >>  
Gross Free-Text Comments

Tissue Finding, severity  
WHOLE BODY NO LESIONS RECOGNIZED

<< Necropsy Memos >>

Tissue Necropsy memos  
No necropsy memos recorded on animal

<< Pathology Observations >>

Histopathologic diagnoses / Special histological comments

THYROID GLAND CYST, THYRO-GLOSSAL DUCT REMNANT, Mild, Focal.

LUNGS INFLAMMATION, INTERSTITIAL, SUBACUTE, Mild, Multifocal.

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